ST-V710L

SERVICE MANUAL

AEP Model
UK Model

SPECIFICATIONS

Tuner

Circuit system: PLL digital frequency synthesizer
Quartz lock system
FM stereo/FM-AM tuner

FM tuner

Frequency range: 87.5 - 108 MHz
Antenna terminal: 300 ohms, balanced
75 ohms, unbalanced
IF: 10.7 MHz
Sensitivity
New IHF

S/N 46 dB sensitivity	Mono	17.3 dBf (2.0 μV)
	Stereo	38.3 dBf (23 μV)
Usable sensitivity		10.3 dBf (0.9 μV)

Signal-to-noise ratio
78dB (monaural), 72 dB (stereo)
Harmonic distortion
AEP, UK model:
0.1% (monaural), 0.25% (stereo) at 1 kHz
G-AEP model:
0.15% (monaural), 0.25% (stereo) at 1 kHz
IM distortion: AEP, UK model:
0.1% (monaural), 0.25% (stereo)
G-AEP model:
0.15% (monaural), 0.25% (stereo)
Separation: 50 dB (1 kHz)
Frequency response
30 Hz – 15 kHz $^{+0.8}_{-1.6}$ dB
Selectivity: AEP, UK model: 50 dB (300 kHz)
G-AEP model: 60 dB (300 kHz)

AM suppression ratio
AEP, UK model: 55 dB
G-AEP model: 65 dB
Image response ratio
AEP, UK model: 45 dB
G-AEP model: 80 dB
IF response ratio: 90 dB
Spurious response ratio
AEP, UK model: 75 dB
G-AEP model: 100 dB
RF intermodulation
AEP, UK model: 68 dB (IHF)
G-AEP model: 74 dB (IHF)
Muting threshold: 25 dBf, 18 μV
Output: 400 mV, 4.7 kΩ (40 k dev)

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

FM STEREO/ FM-MW-LW TUNER

SONY®

MC-Service

AUD

AM tuner

	MW	LW
Frequency range	522 — 1.611 kHz	144 — 288 kHz
Antenna	Layout-free AM antenna, with external antenna temrinal attached	
IF	450 kHz	
Sensitivity	400 μV/m (When the layout-free AM antenna is in use) 999 kHz	700 μV/m (When the layout-free AM antenna is in use) 230 kHz
Signal-to-noise ratio	54 dB	50 dB
Harmonic distorion	0.3 %	
Selectivity	35 dB (9 kHz)	

Timer

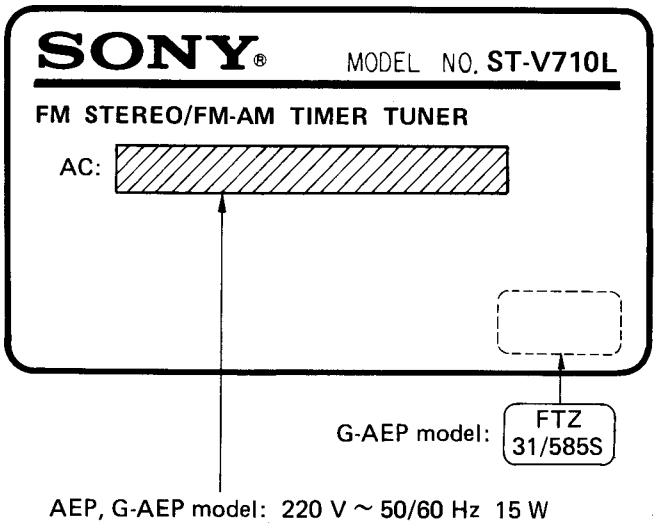
Time display — By 24 hours system
Clock synchronization — Quartz lock system
Timer setting — Capable of setting total of 4 sets of ON/OFF programs
Sleep timer — Up to 60 minutes
Time accuracy — Averaged monthly difference ±15 seconds (at normal temperature)

Power and others

Power requirements
AEP, G-AEP model: 220 V ac
UK model: 240 V ac
Power consumption
12 W
Power outlets — Switched: 1 below 600 W
Unswitched: 1 below 350 W (AEP, G-AEP model only)
AEP, G-AEP model: Below 950 W in total
UK model: Below 600 W in total
Dimensions — 355 x 75 x 280 mm (w/h/d)
Weight — Approx. 3 kg (6 lb 10 oz)

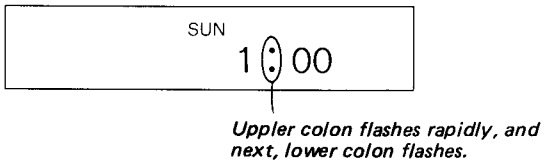
MODEL IDENTIFICATION

– Specification Label –



TIMER SETTING OPERATION CHECK

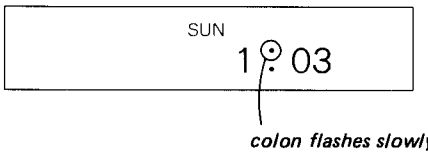
1. Short test point TP3 (timer test), and the fluorescent tube display automatically changes as follows.
2. Display on timer test mode.
   - 1st display



Uppler colon flashes rapidly, and next, lower colon flashes.

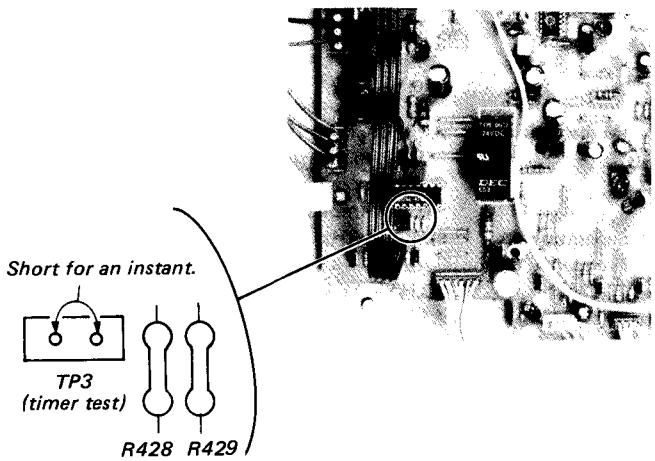
- 2nd display (Relay goes ON.)

- 3rd display (Relay goes OFF.)



colon flashes slowly

3. Timer setting operation is normal if the three displays on step 2 appear. If not, perform remote control operation check with a remote commander.
   - If remote control operation is normal, ——— replace system controller IC601.
   - If remote control operation is not normal, ——— replace remote controller IC401 and perform timer setting operation check again.

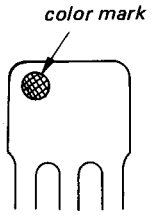


SERVICING NOTE

• IF OFFSET ADJUSTMENT (FM IF)

Diode Installations Depending on the Ceramic Filters
(AEP, UK model CF101, 102
G-AEP model CF101, 102, 103)

This set employs two or three ceramic filters (CF101 – 103) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by diodes (D407, 408) installation is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



Ceramic filter		Diode installation		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	D407	D408	
White	10.750	X	O	10.750
Red	10.700	X (O)	X (O)	10.700
Black	10.650	O	X	10.650
				O: installed X: not installed

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i.e., of same color coding should be used for CF101 through CF103.

If diode installation is changed by replacing ceramic filters, pull out AC plug and ground pin (64) of IC601. (C605 is discharged by pulling out the AC plug. Therefore, system control IC601 is reset by next plugging.)

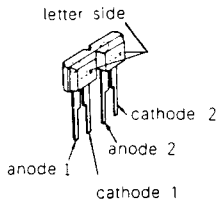
When replacing the ceramic filters, perform the FM Discriminator Adjustment.

• CAUTION ON REPLACING VARIABLE CAPACITANCE DIODE D201, 202 (KV1226)

Each diode D201 (MW), 202 (LW) consists of a pair of diodes. On this set, separate these two diodes to use one for antenna tuning and the other for local oscillator.

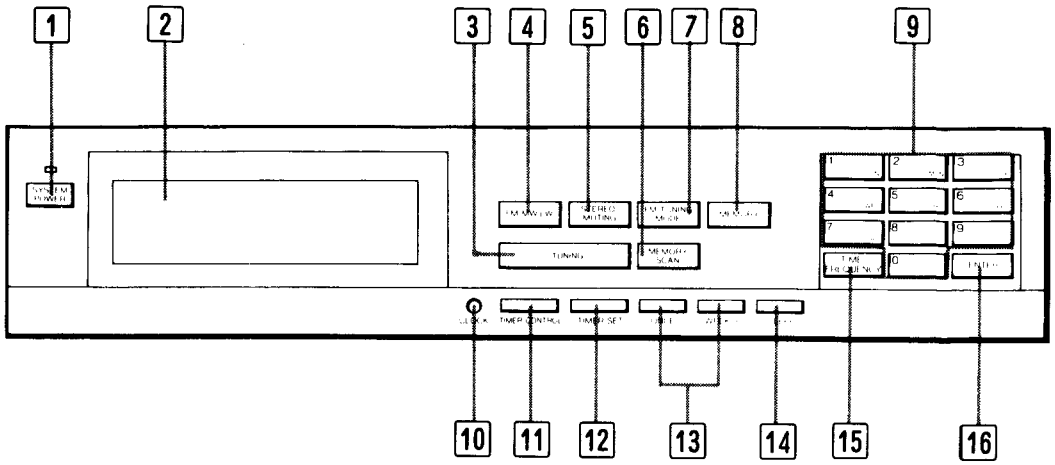
When replacing these diodes, be sure to replace both diodes of antenna tuning circuit and local oscillation circuit at the same time. If not, it will cause tracking error or sensitivity fluctuation.

KV1226

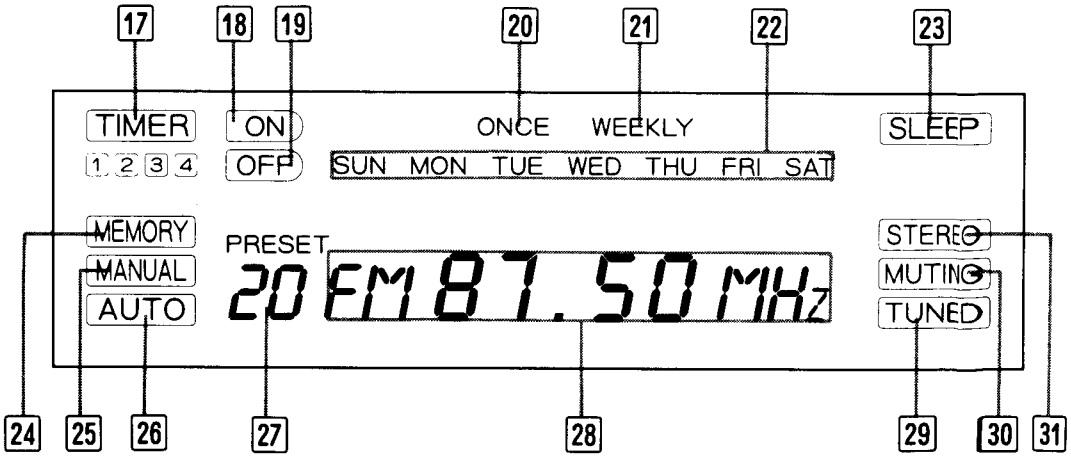


FUNCTION OF CONTROLS

Front panel

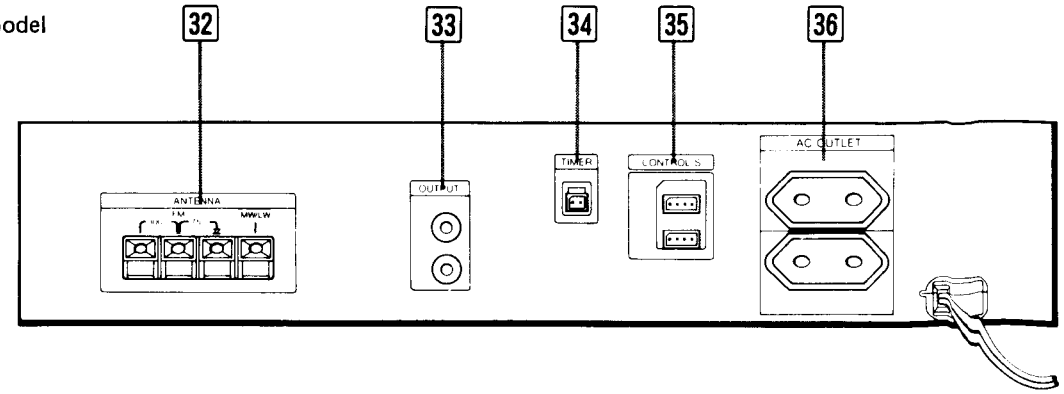


Display window



Rear panel

Illustration: AEP model



Front panel

[1] **SYSTEM POWER switch**
Press this switch to turn the tuner and the connected components on and off.

[2] **Display window**

[3] **TUNING button**

[4] **FM/MW/LW band select button**

[5] **STEREO/MUTING switch**
Press this switch to eliminate FM interstation noise while tuning from station to station.

[6] **MEMORY SCAN button**
Press this button to sequentially receive broadcasting from the preset stations.

[7] **FM TUNING MODE select button**
Press this button to select the manual or auto tuning mode.

[8] **MEMORY button**
Press this button to preset the station.

[9] **Number buttons**
Press this button to enter the preset number, time or timer setting number.

[10] **CLOCK button**
Press this button to set the clock.

[11] **TIMER CONTROL button**
Press this button to temporarily hold execution of the program stored through the timer setting or to release the holding without deleting content of the memory.

[12] **TIMER SET button**
Press this button to set the timer setting.

[13] **ONCE/WEEKLY select buttons**
Use these buttons to set execution time of the timer setting program to "Only once" or "Every week".

[14] **SLEEP button**
Press this button to automatically turn power off within 60 minutes.

[15] **TIME/FREQUENCY select button**
Use this button to select the display mode.

[16] **ENTER button**
Press this button to enter data such as the preset number or timer setting number.

[17] **Timer setting number indicator**

[18] **ON-time indicator**

[19] **OFF-time indicator**

[20] **Only once indicator(ONCE)**

[21] **Every week indicator (WEEKLY)**

[22] **Day of the week indicator**

[23] **SLEEP timer indicator**

[24] **MEMORY indicator**

[25] **Manual tuning indicator**

[26] **Auto tuning indicator**

[27] **Preset number indicator**

[28] **Frequency/present time/timer setting time/sleep timer operation time indicator**

[29] **TUNED indicator**

[30] **MUTING indicator**

[31] **STEREO indicator**

Rear Panel

[32] **Antenna terminals**

[33] **Output jacks (phono jack)**
A jack to be connected to the amplifier.

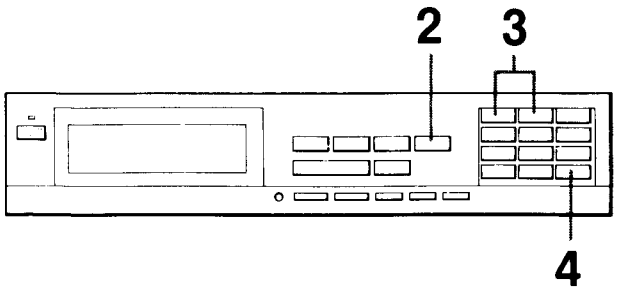
[34] **Timer connector (2-pin)**
This connector is connected to the timer control jack of the AVH-910. It is used to send the ON/OFF signal of the timer to the AVH-910 Audio/Video selector.

[35] **CONTROL S remote control input/output connectors (4-pin)**
This connector is used to control the entire system in combination with other components of Sony. Connect the input jack to the CONTROL S remote control output jack of the other component, and the output jack to the CONTROL S remote control input terminal.

[36] **AC outlet**

MEMORY PRESET TUNING

TO MEMORIZE STATION FREQUENCIES



Example of setting the preset number 12

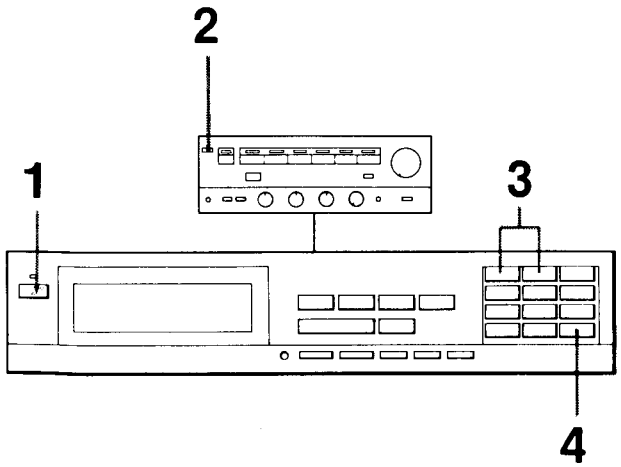
1 Receive a program on any band.

2 Press the MEMORY button.

3 Press the number button of one of the preset number while the MEMORY indicator is on. (If it is a number with a digit, press the number. If it is a number with two digits, enter the first digit followed by the second one.)

4 Press the ENTER button.

TO RECEIVE A MEMORIZED STATION



Example of tuning your preset station number 12

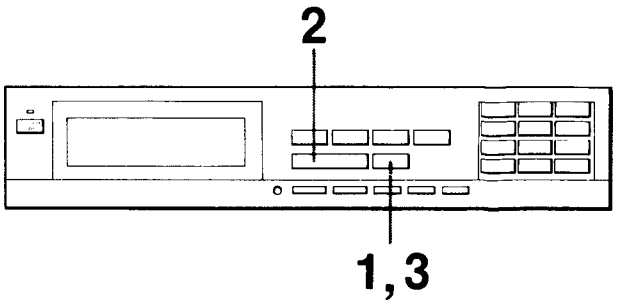
1 Press the SYSTEM POWER switch.

2 Press the POWER switch of the amplifier.

3 Press preset number 1, then 2 to call your preset station.

4 Press the ENTER button.

MEMORY SCANNING



1 Press the MEMORY SCAN button.

2 Press the TUNING button while the PRESET indicator blinks (for several seconds).
Preset stations with larger numbers can be called in succession for receiving broadcasting by pressing the (+) side of the button and those with smaller numbers by pressing the (–) side.

3 Press the MEMORY SCAN button, as soon as your station is received.

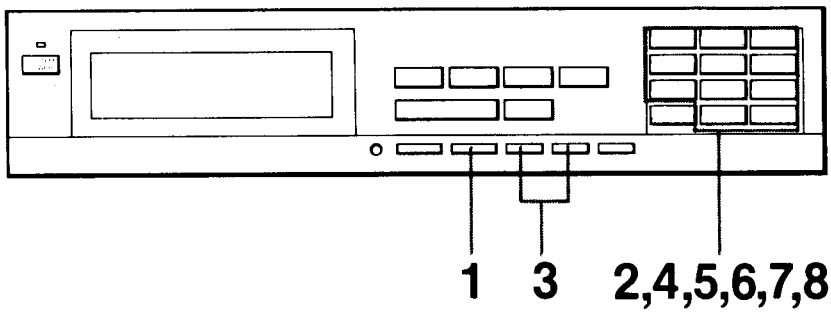
* This memory scan will skip those numbers which are not used in presetting and also skip those stations which have very weak signal.

TIMER SETTING

SETTING THE TIMER

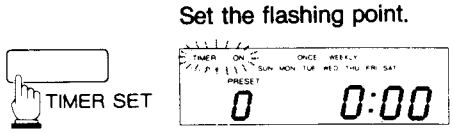
You can set 4 programs in total to control the power ON/OFF of the unit connected to the main unit and the tuner of the main unit. Each program can be made effective for "only once" or "every week".

Before setting
- Is the time correct?
- Is the radio station preset?
- Is the unit to be controlled with the timer connected properly?

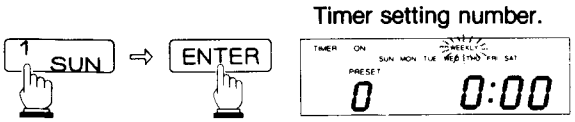


EX: To set the station which was memorized at PRESET No.3 turned ON at 9:30 AM, and turned OFF at 10:15 AM this Saturday.

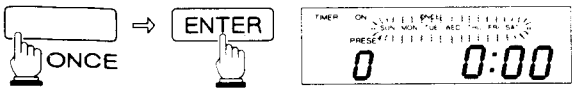
1 Press the TIMER SET button.



2 Set timer setting number (1 - 4).

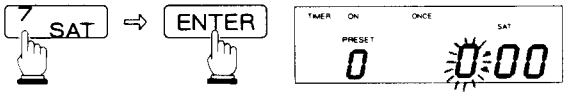


3 Set either "once in the week" or "every week".



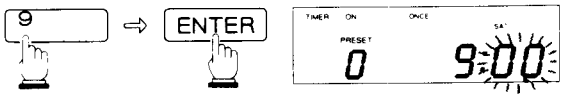
For "every week", press the WEEKLY button.
For "once in the week", press ONCE button.

4 Set the day of the week.



(The display goes on and off every time a button for the day of the week is pressed.)

5 Set the hour of the ON-time.



6 Set the hour of the ON-time.

(Press the ENTER button only when 30 minute is already displayed.)

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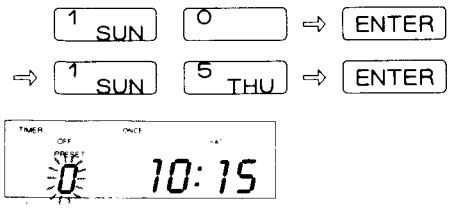
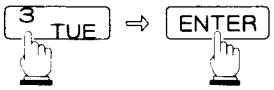
7 Set the hour and the minute of the OFF-time.



8 Set the preset number (1-20).

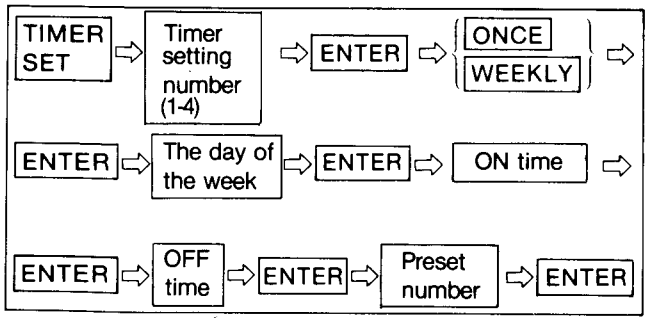
(Press the ENTER button only when playing back a tape)



Displays the present time (Frequency display in receiving a radio program.)

Repeat the above-mentioned procedure for each program set.

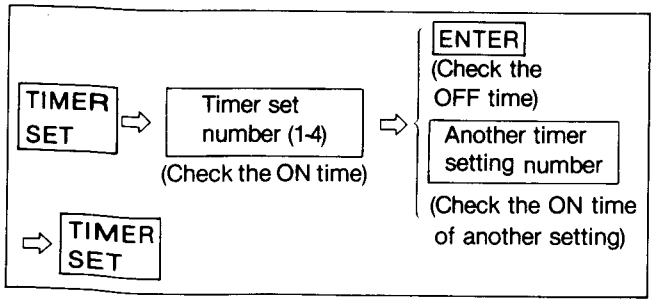
Procedure for setting the timer



TO CHECK THE TIMER SETTING

1 Press the TIMER SET button.
2 Press the button of timer setting number (1 - 4) to be checked. The ON-time is on the display.
3 To check the OFF-time, press the ENTER button as many times as needed to get the OFF time on the display.
To check the ON-time of another setting, press the button for the timer setting number that you want.
4 Press the TIMER SET button.
The display goes back to the present time and the frequency display.

Procedure for checking the timer setting



TO CHANGE THE PROGRAM

- Before pressing the ENTER button
  Don't worry about the program already input.
  Input correctly and then press the ENTER button.
- After pressing the ENTER button
  Press the TIMER SET button. Start with Step 1.
- If the TIMER SET button is pressed although the correction is not needed
  Press the TIMER SET button again.

In case of overlapping timer setting programs

- If the preset numbers are the same, they are accepted.
  Two programs are executed consecutively.

Setting 1. AM7:00 AM8:00 PRESET1

Setting 2. AM7:30 AM9:00 PRESET2

Execution AM7:00 AM9:00 PRESET1

- If the OFF-time of one program falls on the ON-time of the other program, they are accepted.
  The program is automatically changed from one to the other.

Setting 1. FRI AM7:00 AM8:00 PRESET1

Setting 2. FRI AM8:00 AM9:00 (After 10 seconde. approx.) PRESET2

Execution FRI AM7:00 AM8:00 AM9:00 PRESET1 PRESET2

- If preset numbers are different
  In setting the timer of the second program, a beeping sound will be heard when the ENTER button is pressed after inputting the second preset number. The setting is not accepted.
  Press the TIMER SET button and set with different program.

Setting 1. FRI AM7:00 AM8:00 PRESET1

Setting 2. FRI AM7:30 AM9:00 PRESET2

- If the content is the same as that of set program in suspension
  It is accepted. However, if the TIMER CONTROL button is pressed for releasing the suspension, a beeping sound will be heard and timer setting number starts flashing. In this case, the suspension is not released unless the set content of the second program is changed.

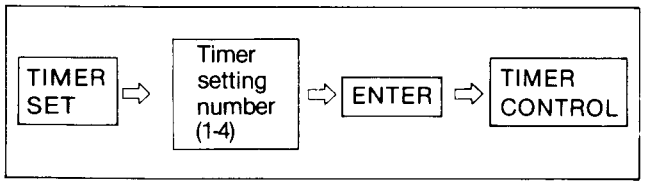
TO SUSPEND THE EXECUTION OF THE SETTING TEMPORARILY

Execution can be suspended without erasing the memory of set content. This can be done when the execution is not needed on a certain day, for instance.

1 Press the TIMER SET button.
2 Press the button for timer setting number to be suspended and the ENTER button.
3 Press the TIMER CONTROL button.
The display goes back to the present time and timer setting number in suspension disappears. (If it was suspended in receiving the radio program, the display goes back to frequency display.)

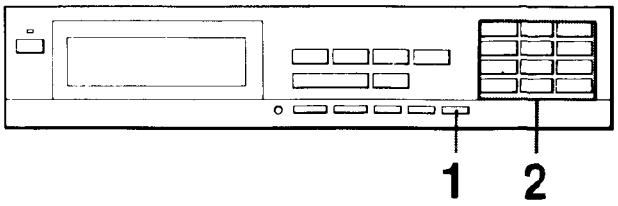
In case of timer setting for only once (ONCE), the memory of the set content is erased automatically as soon as the day for timer set is over (after midnight).

Procedure for the suspension of the execution of timer setting



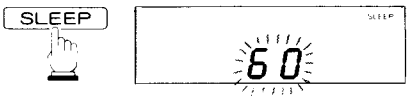
SLEEP TIMER SETTING

Sleeping timer function is to turn off the power of the tuner section of this unit or other equipments connected to this unit automatically within 60 minutes max. It is convenient when you want to sleep while listening to music on the radio or tape.



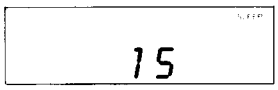
Ex) To turn off the power after 15 minutes

1 Press the SLEEP button.



2 Set the execution time of the sleeping timer.

(Press the ENTER button only if the setting is 60 min.)



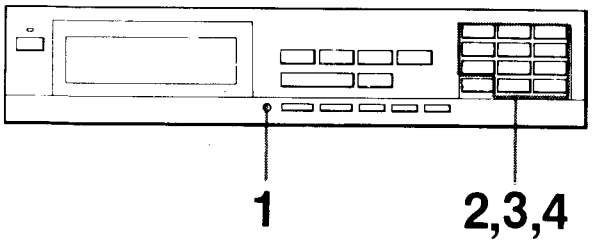
The display returns to the present time display or the frequency display.
When the set time (minutes) has passed, the power of this unit or other equipments connected to this unit will automatically be turned off.
Other timer setting function cannot be executed while this function is effective.
To check the remaining time of the sleeping timer, press the SLEEP button. Press the button again to make the display return to the frequency display or the present time display.
To change the setting of the sleeping timer, press the SLEEP button and set to the desired time again.
To reset the sleeping timer and turn off the power, press the SYSTEM POWER switch.

If you input improper numbers...
If you input a number over 60 in setting the sleeping timer, input is not accepted and a beeping sound will be heard. Enter the correct time and try pressing the ENTER button again.

CLOCK ADJUSTMENT

When a power cord is connected to the wall outlet, the indication of "SUN 0:00" starts flashing. Set the clock to the time information given on TV or radio.

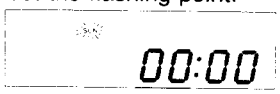
Basic rule on setting the time and the timer
The flashing indicator on the display is used to set the figure and the day correctly. Input information by pressing the number button. If everything is OK, then press the ENTER button. The flashing indicator on the display will show the next operation. It can be accepted as is by pressing the ENTER button or it can be changed by using the number buttons.



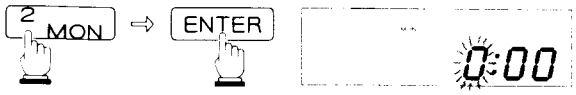
Ex) To set to Monday, 6:30 p.m.

1 Press the CLOCK button.

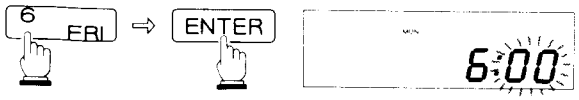
Set the flashing point.



2 Set the day of the week.



3 Set the hour.



(Press as 1 , 0 , for example, in case of 10, 11, 12)

4 Set the minutes.

Flashing for the former 30 seconds.

Flashing for the latter 30 seconds.

Pressing the ENTER button at the same time as time information. Starts the clock at 0.0 seconds.

To change the number and the day of the week already input

- Before pressing ENTER button
  Don't worry about the number and the day of the week already input. Input it correctly again and then press the ENTER button.
- After pressing ENTER button
  Press the CLOCK button.
  The display goes back to the time. Press the CLOCK button and do it over again.
- If the CLOCK button is pressed by mistake although you don't want to correct the time
  Press the CLOCK button again and the display will go back to the original.

If you want to check the time during receiving programs.....
Press the TIME/FREQUENCY button.
It goes back to the frequency display by pressing either TIME/FREQUENCY button again or TUNER receiving button.

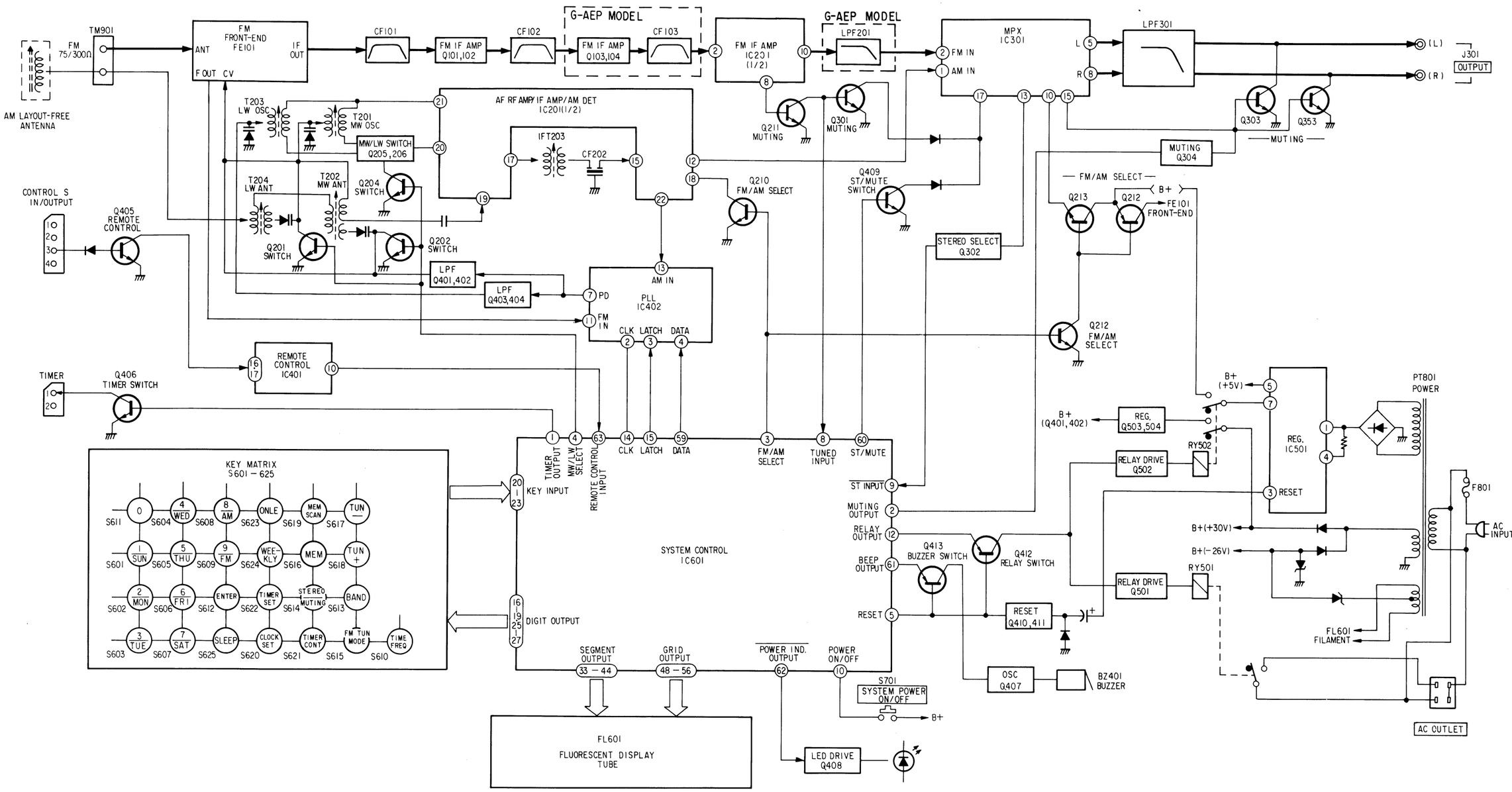
Note
Reset the clock after power failure or when a power cord is once taken out of the wall outlet and inserted again.

Procedure for adjusting clock

CLOCK ⇨ the day of the week ⇨ ENTER ⇨ the time
⇨ ENTER ⇨ the minute ⇨ ENTER = CLOCK STARTS

If you input improper numbers...
If you input a number over 24 in setting the hour or over 60 in setting the minute, input is not accepted and a beeping sound will be heard. Enter the correct time and try pressing the ENTER button again.

SECTION 1
BLOCK DIAGRAM



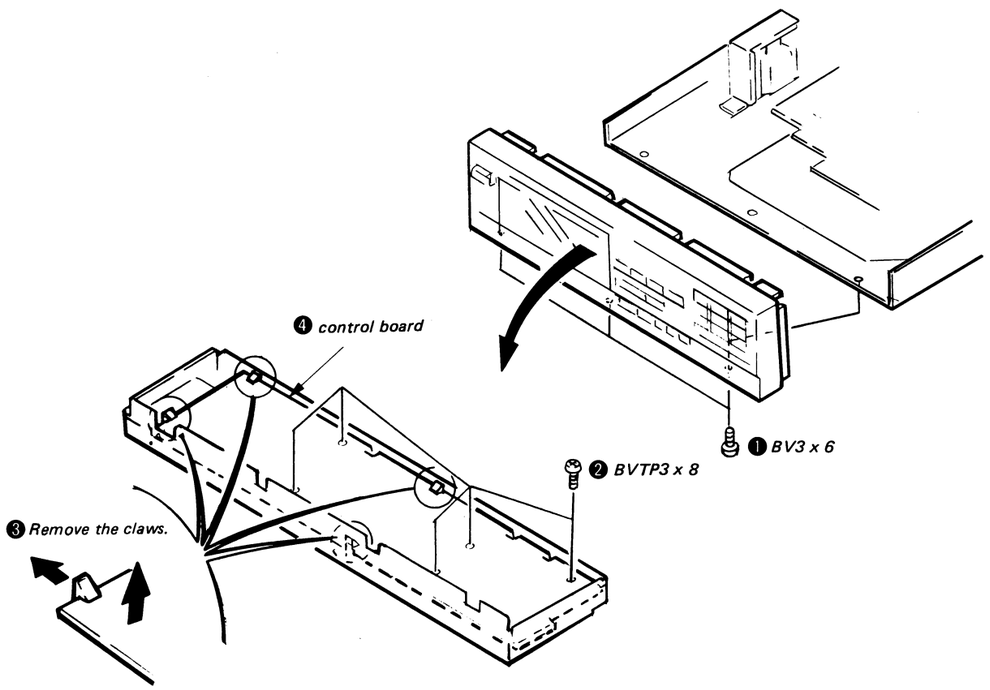
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

CASE

Take out four screws securing case.

CONTROL BOARD

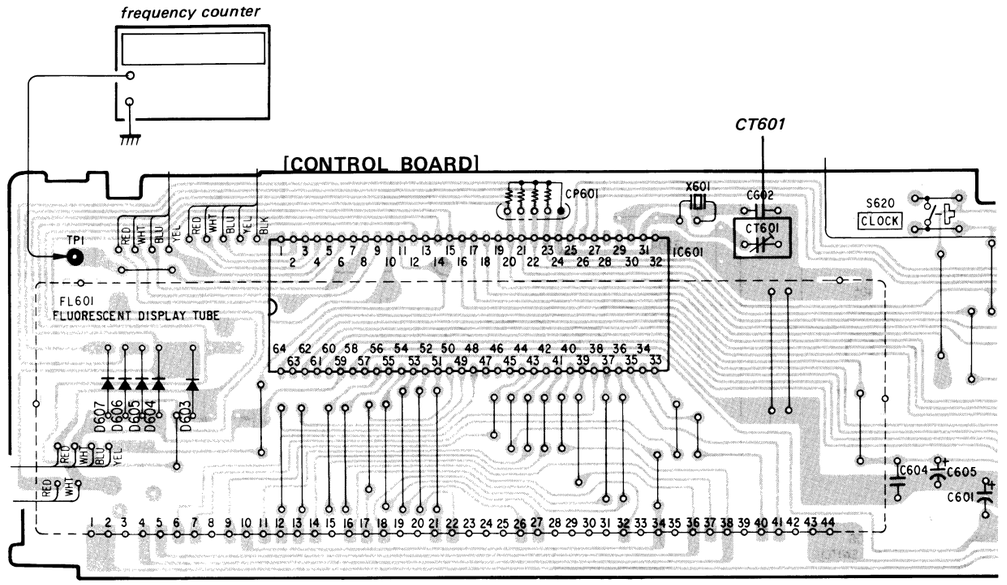


SECTION 3
ELECTRICAL ADJUSTMENTS

Clock Reference Frequency Adjustment

Note: Perform this adjustment when IC601 (system controller) is replaced.

Connection:



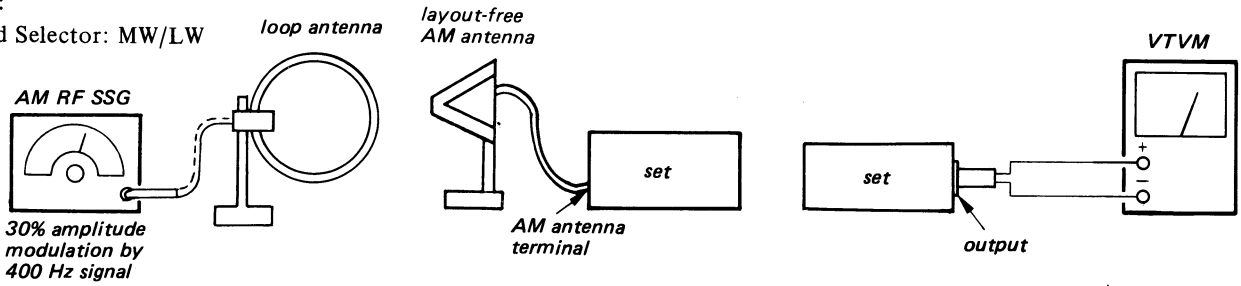
Procedure:

1. Connect AC cord to an outlet pushing the ENTER key.
   (In this time, the fluorescent display is off completely.)
2. Connect a frequency counter to TP1.
3. Adjust CT601 so that the reading on the frequency counter is 131,072 kHz, and confirm that the reading is not changed for more than three second.

MW/LW SECTION

Setting:

Band Selector: MW/LW



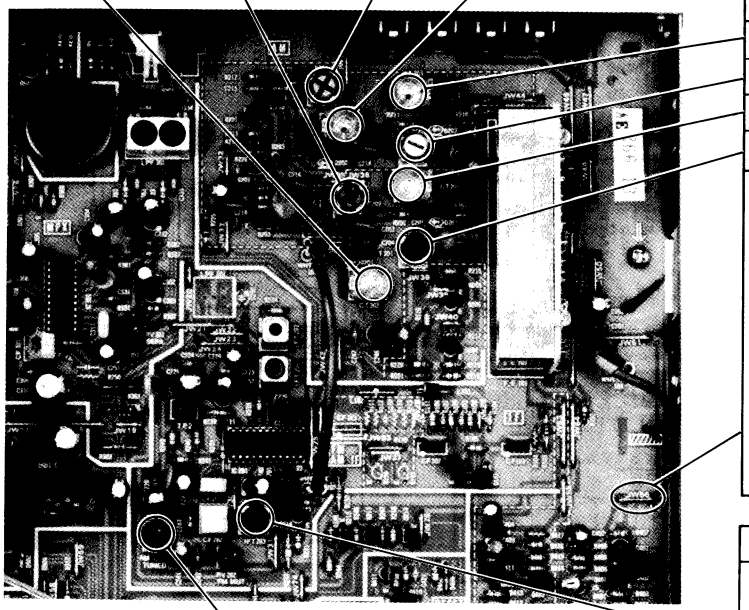
Note:

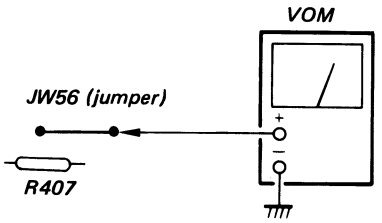
- Traking adjustment of LW section should be made earlier than that of MW section.
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
CT202	T202
1,404 kHz	603 kHz

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T204	CT204
162 kHz	270 kHz

MW/LW FREQUENCY COVERAGE ADJUSTMENT			
Adjustment Parts	Frequency Display	Reading on VOM	Mode
CT203	288 kHz	18.5 ±0.2 V	LW
T203	144 kHz	2.2 ±0.2 V	
CT201	1,611 kHz	22 ±0.2 V	MW
T201	522 kHz	1.8 ±0.2 V	





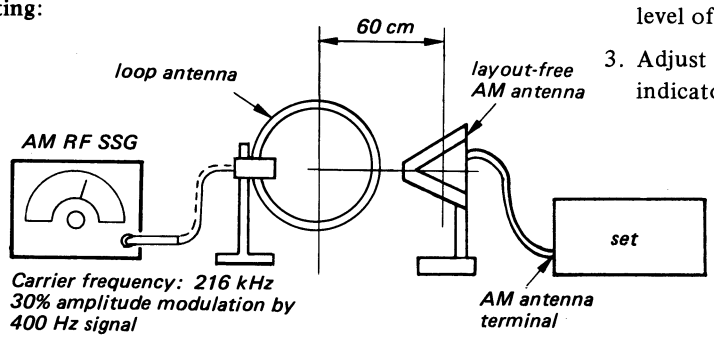
AM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
IFT203	1,404 kHz

RV201

AM TUNED Level Adjustment

(This adjustment should be made after frequency converage adjustment and tracking adjustment of MW, LW.)

Setting:



Procedure:

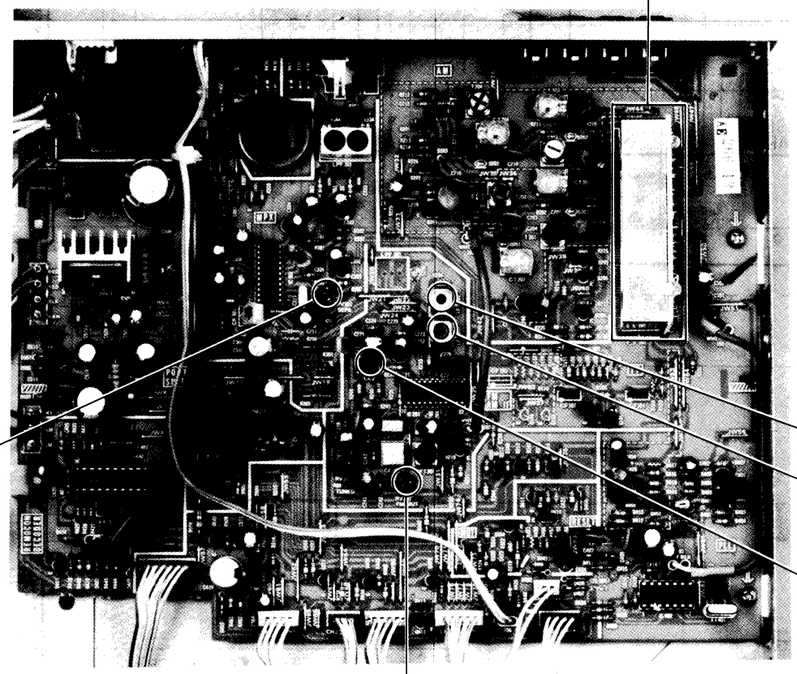
1. Select LW by pressing FM/MW/LW button.
2. Set the AM RF SSG so that the AM antenna input level of the set is 68 dB (2.5 mV/m).
3. Adjust RV201 for the point where the TUNED indicator lights up.

MC-Service

ST-V710L

FM SECTION

The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

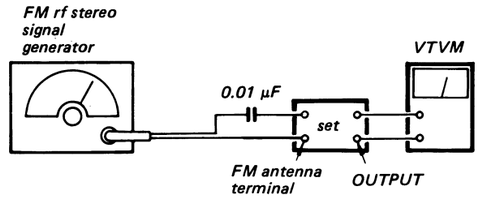


FM Stereo Separation Adjustment

Setting:

STEREO/MUTING swtich: ON

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation:
Audio (400 Hz): 16.25 kHz deviation
Pilot (19 kHz): 7.5 kHz deviation
Sub-channel: 16.25 kHz deviation

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV301 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV301 for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

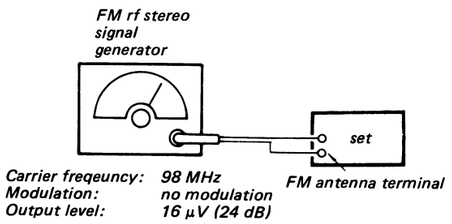
The separations of both channels should be equal.

FM Muting Level Adjustment

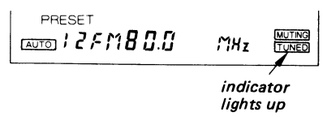
Setting:

STEREO/MUTING switch: ON

Procedure:



Carrier freqeuncy: 98 MHz
Modulation: no modulation
Output level: 16 µV (24 dB)

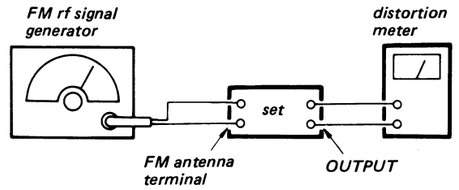


Adjust RV202 for the point where the TUNED indicator lights up.

Note: After the adjustment, AM TUNED Level Adjustment should be performed. (See page 15.)

FM Discriminator Adjustment

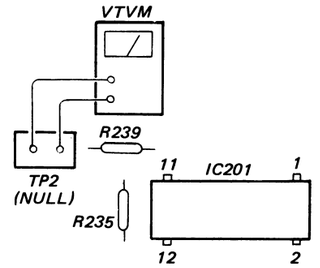
Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 400 Hz, 40 kHz deviation (100%)

1. Tune the set to 98 MHz.
2. Connect a VTVM to NULL test point and adjust the primary-side core (IFT201) for 0V DC reading on the VTVM.
3. Remove the VTVM.
4. Adjust the secondary-side core (IFT202) for a minimum reading on the distortion meter

Note: Repeat the primary-side and secondary-side adjustments several times

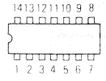


SECTION 4
DIAGRAMS

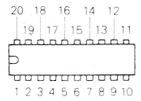
4-1. MOUNTING DIAGRAM

- **Semiconductor Lead Layouts**

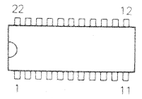
CX-7925B



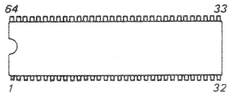
M50760-421P



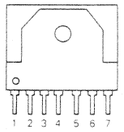
LA1265
LA3401



μPD7516HCW-242

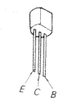


LA5665

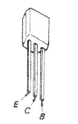


2SK246-GR
2SK30A-GR3

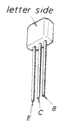
2SC3622A-L
2SD789



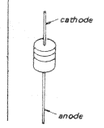
2SC2724-C
2SC2603F
DTA124XS
DTC124XS



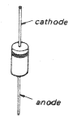
2SA1175



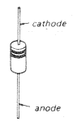
1SS202-1



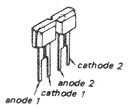
10E2N
HZ30-2L
EQA01-06T2



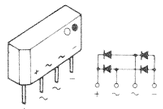
EQB01-26



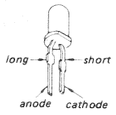
KV1226



S1VB20

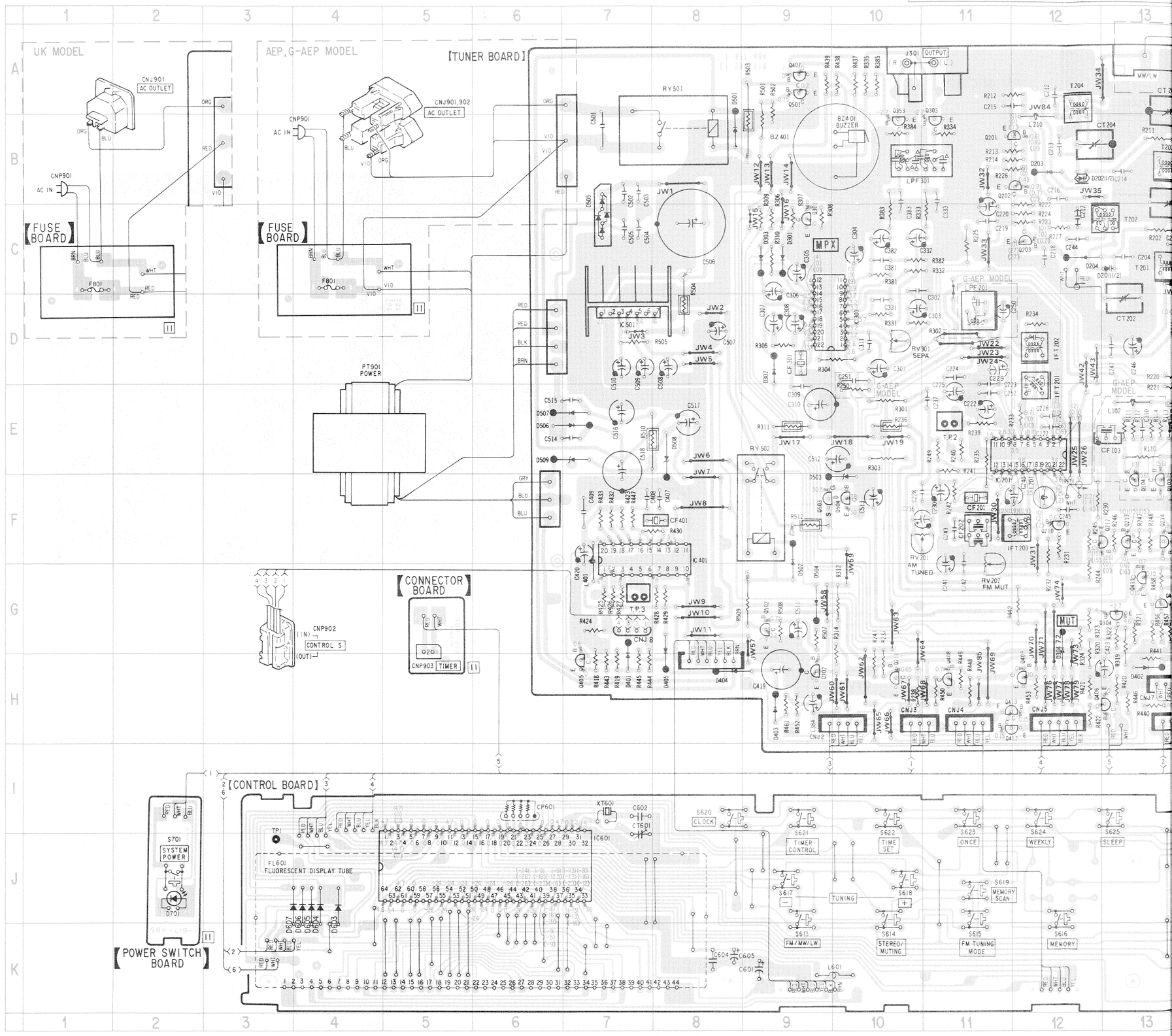


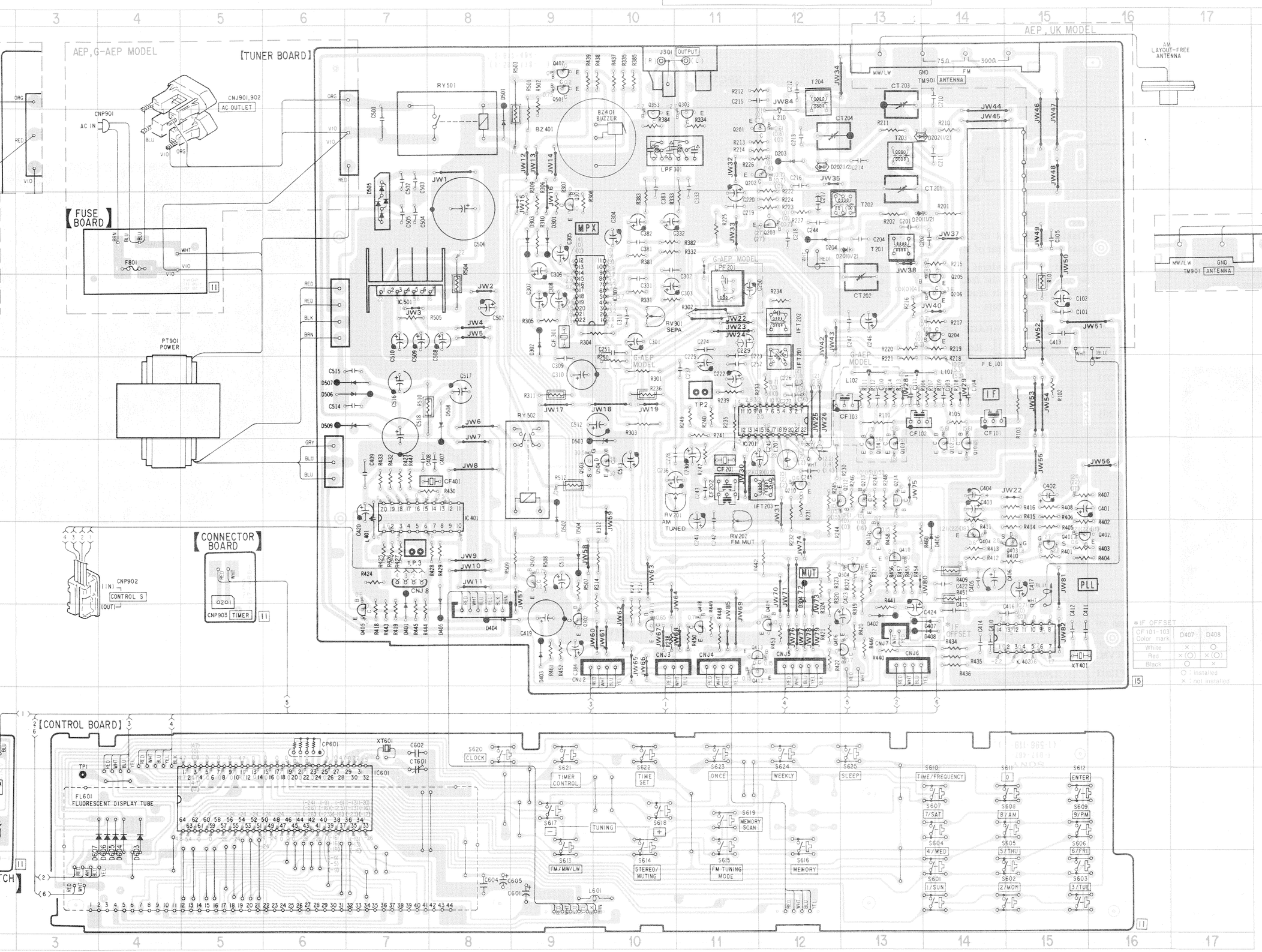
SEL2410E-C



- **Semiconductor Index**

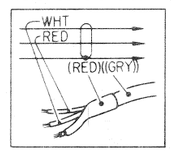
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D201	C-13	D506	E-7	Q202	B-12	Q409	H-12
	C-14	D507	E-7	Q203	C-12	Q410	G-13
D202	B-12	D508	E-8	Q204	D-14	Q411	G-13
	B-14	D509	E-7	Q205	D-14	Q412	H-11
D203	B-12	D603	J-4	Q206	D-14	Q413	H-11
D204	C-12	D604	J-4	Q210	F-12	Q501	A-9
D301	C-9	D605	J-4	Q211	H-10	Q502	G-9
D302	D-9	D606	J-4	Q212	F-13	Q503	F-9
D303	C-9	D607	J-3	Q213	F-13	Q504	F-10
D304	H-12	D701	J-2	Q214	F-13		
D401	H-7			Q301	C-9		
D402	H-13	IC201	E-12	Q302	H-9		
D403	H-9	IC301	D-10	Q303	B-11		
D404	H-8	IC401	G-7	Q304	G-13		
D405	H-8	IC402	H-15	Q353	B-10		
D406	G-14	IC501	D-7	Q401	G-15		
D407	H-14	IC601	J-6	Q402	G-15		
D408	H-14			Q403	G-15		
D501	B-8	Q101	F-14	Q404	G-14		
D502	G-9	Q102	F-14	Q405	H-7		
D503	F-10	Q103	F-13	Q406	H-13		
D504	G-9	Q104	F-13	Q407	A-9		
D505	C-7	Q201	B-12	Q408	H-11		





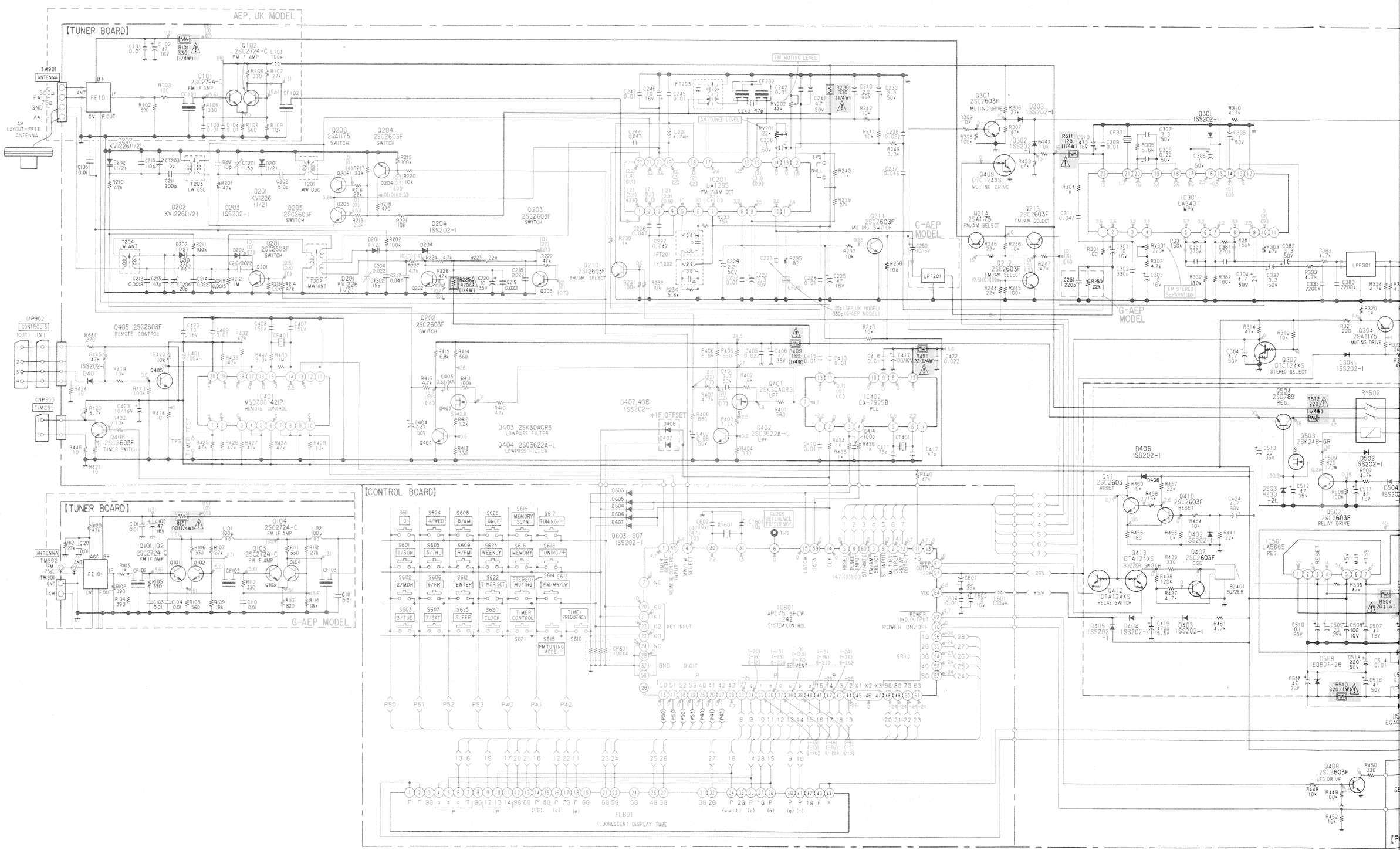
Note:

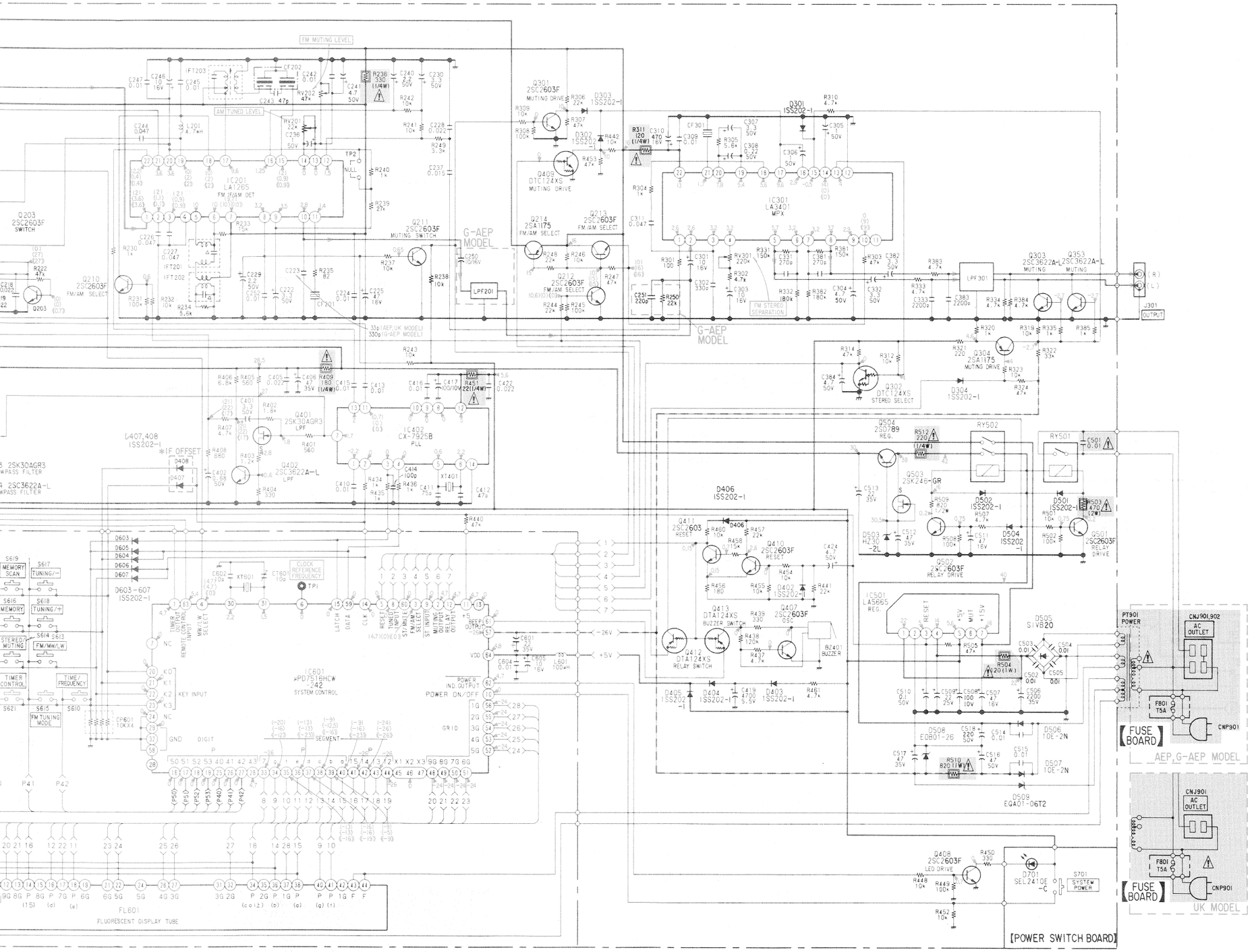
- Color code or sleeving over the end of the jacket.



- ○—— : parts extracted from the component side.
- [ ]→ : indicates side identified with part number.

4-2. SCHEMATIC DIAGRAM





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ➡ : FM signal path.
- ▭ : nonflammable resistor.
- ▬ : B+ bus.
- ▬ ▬ : B– bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  ( ): FM
  < >: MW
  ≪ ≫: LW
- Voltage variations may be noted due to normal production tolerances.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Switch

Ref. No.	Switch	Position
S601	1/SUN	OFF
S602	2/MON	OFF
S603	3/TUE	OFF
S604	4/WED	OFF
S605	5/THU	OFF
S606	6/FRI	OFF
S607	7/SAT	OFF
S608	8/AM	OFF
S609	9/PM	OFF
S610	TIME/FREQEUNCY	OFF
S611	0	OFF
S612	ENTER	OFF
S613	FM/MW/LW	OFF
S614	STEREO/MUTING	OFF
S615	FM TUNING MODE	OFF
S616	MEMORY	OFF
S617	TUNING –	OFF
S618	TUNING +	OFF
S619	MEMORY SCAN	OFF
S620	CLOCK	OFF
S621	TIMER CONTROL	OFF
S622	TIMER SET	OFF
S623	ONCE	OFF
S624	WEEKLY	OFF
S625	SLEEP	OFF
S701	SYSTEM POWER	OFF

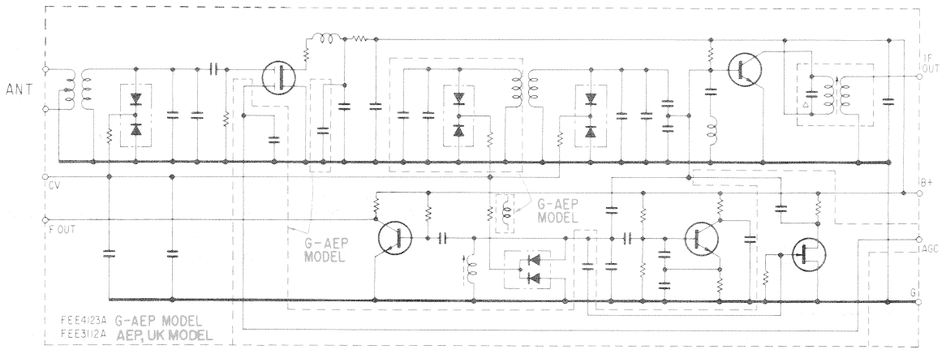
*IF OFFSET

CF101-103 Color mark	D407	D408
White	×	○
Red	×(○)	×(○)
Black	○	×

○ : installed
× : not installed

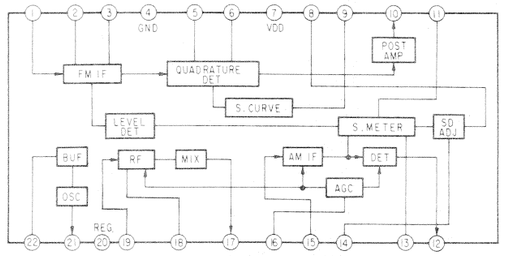
• FM FRONT-END (FE101)

FEE3112A (AEP, UK model)
FEE4123A (G-AEP model)

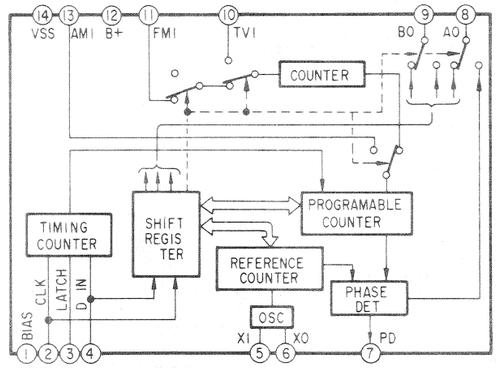


• IC BLOCK DIAGRAM

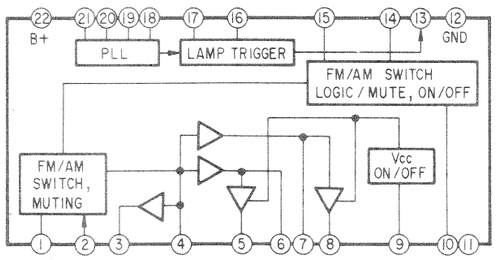
IC201 LA1265



IC402 CX7925



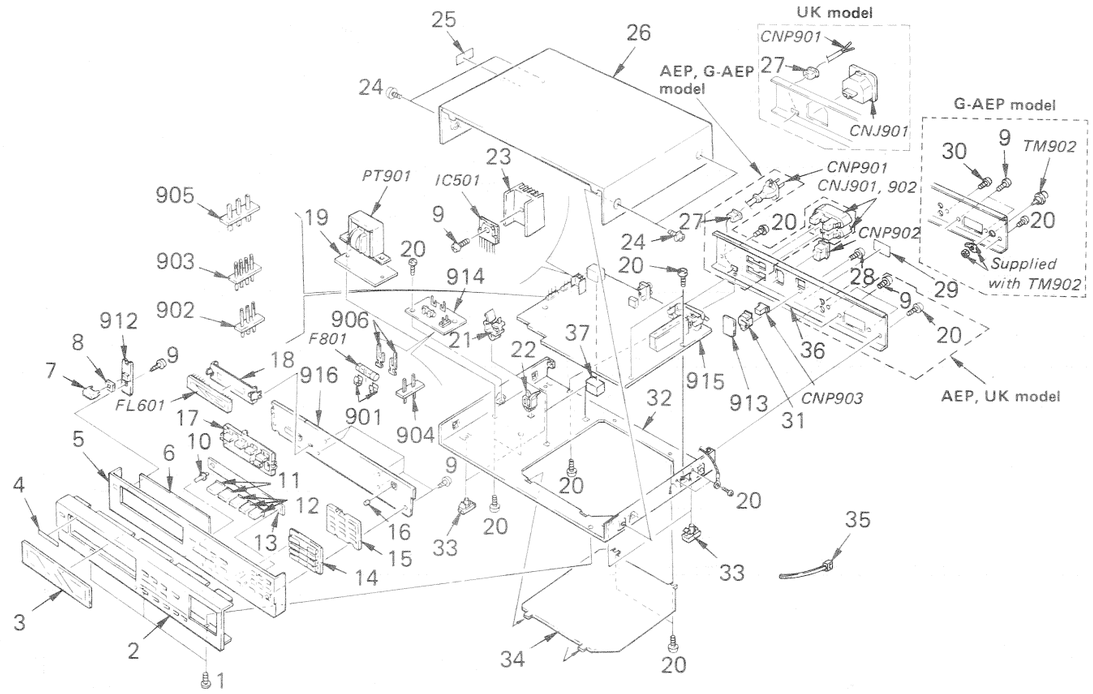
IC301 LA3401



SECTION 5
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks
1	3-703-108-21	SCREW +BV 3X6, S TIGHT	
2	X-4913-409-1	PANEL ASSY	
3	4-912-111-01	WINDOW, DISPLAY	
4	3-701-690-00	(UK)....LABEL (MADE IN JAPAN)	
5	4-912-116-01	BASE, PANEL	
6	4-912-103-01	FILTER	
7	3-689-516-21	KEY, POWER	
8	*4-912-105-01	CUSHION	
9	7-685-646-71	SCREW +BVTP 3X8 TYPE2 N-S	
10	2-389-103-11	PUSH KNOB	
11	4-912-112-01	KNOB (L19), T	
12	4-912-108-01	KNOB (L15), T	
13	*4-912-104-01	CUSHION	
14	X-4913-408-1	KNOB ASSY, PUSH	
15	4-912-102-01	RETAINER, KNOB	
16	*3-311-129-01	SPACER (Y)	
17	4-912-110-31	KNOB (BLOCK)	
18	*4-912-109-01	HOLDER, FL TUBE	
19	*4-913-307-01	PLATE, SHIELD	
20	7-685-871-01	SCREW +BVTT 3X6 (S)	
21	*3-703-141-00	HOLDER, PCB	
22	*3-659-681-00	HOLDER, PC BOARD	
23	*4-363-146-51	HEAT SINK, V.OUT	
24	4-886-821-01	SCREW, M3 CASE	
25	3-703-079-21	(UK)....LABEL, CAUTION (BACK)	
26	4-912-115-01	CASE	
27	3-703-244-00	BUSHING (2104), CORD	
28	7-685-133-14	SCREW +P 2.6X6 TYPE1	
29	*4-913-417-01	(G-AEP)...LABEL, MODEL NUMBER (AE4)	
	*4-912-124-01	(AEP).....LABEL, MODEL NUMBER	
30	4-909-982-11	(G-AEP)...SCREW, TAPPING	
31	*3-323-401-01	HOLDER (2 PIN), CONNECTOR	
32	4-912-118-24	CHASSIS	
33	X-4907-603-1	FOOT ASSY	
34	*4-912-117-01	PLATE, BOTTOM	
35	3-701-748-00	CLAMP	
36	*4-912-114-31	(AEP).....PLATE, JACK	
	*4-912-114-41	(G-AEP)...PLATE, JACK	
	*4-912-114-51	(UK).....PLATE, JACK	
37	9-911-843-XX	CUSHION	
901	1-533-183-11	HOLDER, FUSE	
902	*1-535-116-00	TERMINAL	
903	*1-535-117-00	TERMINAL	
904	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
905	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P	
906	1-535-416-00	TERMINAL	
912	*1-617-485-11	PC BOARD, POWER SW	
913	*1-617-486-11	PC BOARD, CONNECTOR	
914	*1-618-607-11	PC BOARD, FUSE	
915	*A-4351-499-A	(G-AEP)....MOUNTED PCB, TUNER	
	*A-4351-497-A	(AEP,UK)...MOUNTED PCB, TUNER	
916	A-4431-003-A	MOUNTED PCB, CONTROL	
CNJ901	⚠1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CNJ901	⚠1-526-751-00	(UK).....OUTLET, AC	
CNJ902	⚠1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CNP901	⚠1-558-555-11	(AEP,G-AEP)...CORD, POWER	
CNP901	⚠1-534-777-00	(UK).....CORD, POWER	
CNP902	*1-558-235-11	CORD (WITH CONNECTOR)(CONTROL S)	
CNP903	*1-560-286-00	CONNECTOR PIN 2P (TIMER)	
PT901	⚠1-448-409-11	TRANSFORMER, POWER	
TM902	1-561-919-00	(G-AEP)...SOCKET, CONNECTOR	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
· All resistors are in ohms.
· F : nonflammable

COILS
· MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	1-533-183-11	HOLDER, FUSE
902	*1-535-116-00	TERMINAL
903	*1-535-117-00	TERMINAL
904	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
905	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P
906	1-535-416-00	TERMINAL
910	*1-562-249-00	SOCKET, CONNECTOR 4P
911	*1-562-251-00	SOCKET, CONNECTOR 6P
912	*1-617-485-11	PC BOARD, POWER SW
913	*1-617-486-11	PC BOARD, CONNECTOR
914	*1-618-607-11	PC BOARD, FUSE
915	*A-4351-499-A	(G-AEP)....MOUNTED PCB, TUNER
	*A-4351-497-A	(AEP,UK)...MOUNTED PCB, TUNER
916	*A-4431-003-A	MOUNTED PCB, CONTROL
BZ401	1-529-016-00	BUZZER, PIEZOELECTRIC
C101	1-162-306-31	CERAMIC 0.01MF 30% 16V
C102	1-123-332-00	ELECT 47MF 20% 16V
C103	1-162-306-31	CERAMIC 0.01MF 30% 16V
C104	1-162-306-31	CERAMIC 0.01MF 30% 16V
C105	1-162-306-31	CERAMIC 0.01MF 30% 16V
C110	1-162-306-31	(G-AEP)...CERAMIC 0.01MF 30% 16V
C111	1-162-306-31	(G-AEP)...CERAMIC 0.01MF 30% 16V
C120	1-162-306-31	(G-AEP)...CERAMIC 0.01MF 30% 16V
C201	1-101-999-00	CERAMIC 10PF 0.5PF 50V
C202	1-104-070-00	POLYSTYRENE 510PF 5% 50V
C204	1-101-005-00	CERAMIC 0.022MF 50V
C210	1-102-925-00	CERAMIC 110PF 5% 50V
C211	1-104-060-00	POLYSTYRENE 200PF 5% 50V
C212	1-102-120-00	CERAMIC 0.0018MF 10% 50V
C213	1-102-966-00	CERAMIC 43PF 5% 50V
C214	1-101-005-00	CERAMIC 0.022MF 50V
C215	1-162-301-31	CERAMIC 0.0015MF 30% 16V
C216	1-101-005-00	CERAMIC 0.022MF 50V
C217	1-101-006-21	CERAMIC 0.047MF 50V
C218	1-101-005-00	CERAMIC 0.022MF 50V
C219	1-101-005-00	CERAMIC 0.022MF 50V
C220	1-123-356-00	ELECT 10MF 20% 35V
C222	1-123-382-00	ELECT 3.3MF 20% 50V
C223	1-162-211-31	(AEP,UK)...CERAMIC 33PF 5% 50V
C223	1-162-288-31	(G-AEP)....CERAMIC 330PF 10% 50V
C224	1-162-306-31	CERAMIC 0.01MF 30% 16V
C225	1-123-332-00	ELECT 47MF 20% 16V
C226	1-101-006-00	CERAMIC 0.047MF 50V
C227	1-101-006-00	CERAMIC 0.047MF 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C228	1-101-005-00	CERAMIC 0.022MF 50V
C229	1-123-381-00	ELECT 2.2MF 20% 50V
C230	1-123-382-00	ELECT 3.3MF 20% 50V
C236	1-123-380-00	ELECT 1MF 20% 50V
C237	1-108-583-00	MYLAR 0.015MF 5% 50V
C240	1-123-381-00	ELECT 2.2MF 20% 50V
C241	1-123-369-00	ELECT 4.7MF 20% 50V
C242	1-162-306-31	CERAMIC 0.01MF 30% 16V
C243	1-162-215-31	CERAMIC 47PF 5% 50V
C244	1-101-006-21	CERAMIC 0.047MF 50V
C245	1-162-306-31	CERAMIC 0.01MF 30% 16V
C246	1-123-356-00	ELECT 10MF 20% 16V
C247	1-162-306-31	CERAMIC 0.01MF 30% 16V
C250	1-123-356-00	(G-AEP)....ELECT 10MF 20% 16V
C251	1-162-286-31	(G-AEP)....CERAMIC 220PF 10% 50V
C252	1-162-306-31	CERAMIC 0.01MF 30% 16V
C301	1-123-356-00	ELECT 10MF 20% 16V
C302	1-162-288-31	CERAMIC 330PF 10% 50V
C303	1-123-356-00	ELECT 10MF 20% 16V
C304	1-123-369-00	ELECT 4.7MF 20% 50V
C305	1-123-380-00	ELECT 1MF 20% 50V
C306	1-123-380-00	ELECT 1MF 20% 50V
C307	1-123-382-00	ELECT 3.3MF 20% 50V
C308	1-123-608-00	ELECT 0.22MF 20% 50V
C309	1-162-306-31	CERAMIC 0.01MF 30% 16V
C310	1-123-323-00	ELECT 470MF 20% 16V
C311	1-108-595-00	MYLAR 0.047MF 5% 50V
C331	1-103-711-00	POLYSTYRENE 270PF 5% 50V
C332	1-123-382-00	ELECT 3.3MF 20% 50V
C333	1-162-302-31	CERAMIC 0.0022MF 30% 16V
C381	1-103-711-00	POLYSTYRENE 270PF 5% 50V
C382	1-123-382-00	ELECT 3.3MF 20% 50V
C383	1-162-302-31	CERAMIC 0.0022MF 30% 16V
C384	1-123-369-00	ELECT 4.7MF 20% 50V
C401	1-123-382-00	ELECT 3.3MF 20% 50V
C402	1-123-902-00	ELECT 0.68MF 20% 50V
C403	1-123-609-00	ELECT 0.33MF 20% 50V
C404	1-123-610-00	ELECT 0.47MF 20% 50V
C405	1-101-005-00	CERAMIC 0.022MF 50V
C406	1-123-359-00	ELECT 47MF 20% 35V
C407	1-102-531-00	CERAMIC 150PF 5% 50V
C408	1-102-531-00	CERAMIC 150PF 5% 50V
C409	1-162-306-31	CERAMIC 0.01MF 30% 16V
C410	1-162-306-31	CERAMIC 0.01MF 30% 16V
C411	1-102-526-00	CERAMIC 75PF 5% 50V

MC-Service

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C412	1-102-852-00	CERAMIC	47PF	5%	50V
C413	1-162-306-31	CERAMIC	0.01MF	30%	16V
C414	1-162-282-31	CERAMIC	100PF	10%	50V
C415	1-162-306-31	CERAMIC	0.01MF	30%	16V
C416	1-162-306-31	CERAMIC	0.01MF	30%	16V
C417	1-123-307-00	ELECT	100MF	20%	10V
C419	1-124-936-11	ELECT	4700MF		5.5V
C420	1-123-356-00	ELECT	10MF	20%	16V
C422	1-161-494-00	CERAMIC	0.022MF	30%	25V
C423	1-123-356-00	ELECT	10MF	20%	16V
C424	1-123-369-00	ELECT	4.7MF	20%	50V
C501 ⚠	1-161-744-00	CERAMIC	0.01MF		400V
C502	1-101-004-00	CERAMIC	0.01MF		50V
C503	1-101-004-00	CERAMIC	0.01MF		50V
C504	1-101-004-00	CERAMIC	0.01MF		50V
C505	1-101-004-00	CERAMIC	0.01MF		50V
C506	1-123-350-00	ELECT	2200MF	20%	35V
C507	1-123-332-00	ELECT	47MF	20%	16V
C508	1-123-307-00	ELECT	100MF	20%	10V
C509	1-123-330-00	ELECT	22MF	20%	25V
C510	1-123-607-00	ELECT	0.1MF	20%	50V
C511	1-123-332-00	ELECT	47MF	20%	16V
C512	1-123-359-00	ELECT	47MF	20%	35V
C513	1-123-357-00	ELECT	22MF	20%	35V
C514	1-101-004-00	CERAMIC	0.01MF		50V
C515	1-101-004-00	CERAMIC	0.01MF		50V
C516	1-123-359-00	ELECT	47MF	20%	50V
C517	1-123-359-00	ELECT	47MF	20%	35V
C518	1-123-361-00	ELECT	220MF	20%	50V
C601	1-124-248-00	ELECT	22MF	20%	35V
C602	1-102-508-00	CERAMIC	10PF	0.5PF	50V
C604	1-162-306-31	CERAMIC	0.01MF	30%	16V
C605	1-124-233-00	ELECT	10MF	20%	16V
CF101	1-527-344-91	FILTER, CERAMIC			
CF102	1-527-344-91	FILTER, CERAMIC			
CF103	1-527-344-91	(G-AEP)...FILTER, CERAMIC			
CF201	1-527-981-00	FILTER, CERAMIC			
CF202	1-527-937-00	FILTER, CERAMIC			
CF301	1-567-250-11	OSCILLATOR, CERAMIC			
CF401	1-527-532-00	OSCILLATOR, CERAMIC			
CNJ1	*1-564-509-11	PLUG, CONNECTOR 6P			
CNJ2	*1-564-507-11	PLUG, CONNECTOR 4P			
CNJ3	*1-564-506-11	PLUG, CONNECTOR 3P			
CNJ4	*1-564-507-41	PLUG, CONNECTOR 4P			
CNJ5	*1-564-508-11	PLUG, CONNECTOR 5P			
CNJ6	*1-564-507-21	PLUG, CONNECTOR 4P			
CNJ901⚠	1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CNJ901⚠	1-526-751-00	(UK).....OUTLET, AC			
CNJ902⚠	1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CNP901⚠	1-558-555-11	(AEP,G-AEP)...CORD, POWER			
CNP901⚠	1-534-777-00	(UK).....CORD, POWER			
CNP902	*1-558-235-11	CORD (WITH CONNECTOR)(CONTROL S)			
CNP903	*1-560-286-00	CONNECTOR PIN 2P (TIMER)			
CNL7	*1-564-505-41	PLUG, CONNECTOR 2P			
CP601	1-232-986-11	COMPOSITION CIRCUIT BLOCK			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CT201	1-141-180-00	CAP, TRIMMER 15P
CT202	1-141-180-00	CAP, TRIMMER 15P
CT203	1-141-180-00	CAP, TRIMMER 15P
CT204	1-141-171-00	CAP, TRIMMER 20P
CT601	1-141-304-11	TRIMAR, CERAMIC
D201	8-719-912-27	DIODE KV1226
D202	8-719-912-27	DIODE KV1226
D203	8-719-107-94	DIODE 1SS202-1
D204	8-719-107-94	DIODE 1SS202-1
D301	8-719-107-94	DIODE 1SS202-1
D302	8-719-107-94	DIODE 1SS202-1
D303	8-719-107-94	DIODE 1SS202-1
D304	8-719-107-94	DIODE 1SS202-1
D401	8-719-107-94	DIODE 1SS202-1
D402	8-719-107-94	DIODE 1SS202-1
D403	8-719-107-94	DIODE 1SS202-1
D404	8-719-107-94	DIODE 1SS202-1
D405	8-719-107-94	DIODE 1SS202-1
D406	8-719-107-94	DIODE 1SS202-1
D407	8-719-107-94	DIODE 1SS202-1
D408	8-719-107-94	DIODE 1SS202-1
D501	8-719-107-94	DIODE 1SS202-1
D502	8-719-107-94	DIODE 1SS202-1
D503	8-719-913-02	DIODE HZ30-2L
D504	8-719-107-94	DIODE 1SS202-1
D505	8-719-511-20	DIODE S1VB20
D506	8-719-200-77	DIODE 10E2N
D507	8-719-200-77	DIODE 10E2N
D508	8-719-931-26	DIODE EQB01-26
D509	8-719-999-64	DIODE EQA01-06T2
D603	8-719-107-94	DIODE 1SS202-1
D604	8-719-107-94	DIODE 1SS202-1
D605	8-719-107-94	DIODE 1SS202-1
D606	8-719-107-94	DIODE 1SS202-1
D607	8-719-107-94	DIODE 1SS202-1
D701	8-719-301-43	DIODE SEL2410E-C
F801 ⚠	1-532-299-00	FUSE, TIME-LAG
FE101	1-463-613-11	(AEP,UK)...FRONT END, FM (FEE-3112A)
FE101	1-463-641-11	(G-AEP)....FRONT END, FM (FEE-4123A)
FL601	1-519-372-11	INDICATOR TUBE, FLUORESCENT
IC201	8-759-801-81	IC LA1265
IC301	8-759-801-80	IC LA3401
IC401	8-759-603-43	IC M50760-421P
IC402	8-759-925-20	IC CX-7925B
IC501	8-759-801-79	IC LA5665
IC601	8-759-107-84	IC UPD7516HCW-242
IFT201	1-404-650-11	COIL, DISCRIMINATOR
IFT202	1-404-651-11	COIL, DISCRIMINATOR
IFT203	1-404-535-11	COIL (WITH IFT)
J301	1-507-807-00	(AEP,UK)...JACK, PIN 2P (OUTPUT)
J301	1-507-997-11	(G-AEP)....JACK, PIN 2P (OUTPUT)
L101	1-410-564-21	MICRO INDUCTOR 100UH
L102	1-410-564-21	(G-AEP)....MICRO INDUCTOR 100UH
L201	1-408-920-00	MICRO INDUCTOR 4.7MMH
L210	1-410-568-21	MICRO INDUCTOR 220UH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L401	1-408-575-00	MICRO INDUCTOR 100UH
L601	1-408-575-00	MICRO INDUCTOR 100UH
LPF201	1-235-266-00	(G-AEP)...FILTER, LOW PASS
LPF301	1-235-221-00	FILTER, LOW PASS
PT901 ⚠	1-448-409-11	TRANSFORMER, POWER
Q101	8-729-672-42	TRANSISTOR 2SC2724-C
Q102	8-729-672-42	TRANSISTOR 2SC2724-C
Q103	8-729-672-42	(G-AEP)....TRANSISTOR 2SC2724-C
Q104	8-729-672-42	(G-AEP)....TRANSISTOR 2SC2724-C
Q201	8-729-606-33	TRANSISTOR 2SC2603F
Q202	8-729-606-33	TRANSISTOR 2SC2603F
Q203	8-729-606-33	TRANSISTOR 2SC2603F
Q204	8-729-606-33	TRANSISTOR 2SC2603F
Q205	8-729-606-33	TRANSISTOR 2SC2603F
Q206	8-729-117-54	TRANSISTOR 2SA1175
Q210	8-729-606-33	TRANSISTOR 2SC2603F
Q211	8-729-606-33	TRANSISTOR 2SC2603F
Q212	8-729-606-33	TRANSISTOR 2SC2603F
Q213	8-729-606-33	TRANSISTOR 2SC2603F
Q214	8-729-117-54	TRANSISTOR 2SA1175
Q301	8-729-606-33	TRANSISTOR 2SC2603F
Q302	8-729-900-83	TRANSISTOR DTC124XS
Q303	8-729-107-98	TRANSISTOR 2SC3622A-L
Q304	8-729-117-54	TRANSISTOR 2SA1175
Q353	8-729-107-98	TRANSISTOR 2SC3622A-L
Q401	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q402	8-729-107-98	TRANSISTOR 2SC3622A-L
Q403	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q404	8-729-107-98	TRANSISTOR 2SC3622A-L
Q405	8-729-606-33	TRANSISTOR 2SC2603F
Q406	8-729-606-33	TRANSISTOR 2SC2603F
Q407	8-729-606-33	TRANSISTOR 2SC2603F
Q408	8-729-606-33	TRANSISTOR 2SC2603F
Q409	8-729-900-83	TRANSISTOR DTC124XS
Q410	8-729-606-33	TRANSISTOR 2SC2603F
Q411	8-729-606-33	TRANSISTOR 2SC2603F
Q412	8-729-900-67	TRANSISTOR DTA124XS
Q413	8-729-900-67	TRANSISTOR DTA124XS
Q501	8-729-606-33	TRANSISTOR 2SC2603F
Q502	8-729-606-33	TRANSISTOR 2SC2603F
Q503	8-729-224-62	TRANSISTOR 2SK246-GR
Q504	8-729-378-91	TRANSISTOR 2SD789
R101 ⚠	1-247-107-00	(G-AEP)....CARBON 100 5% 1/4W F
R101 ⚠	1-247-119-00	(AEP,UK)...CARBON 330 5% 1/4W F
R102	1-247-821-00	CARBON 390 5% 1/6W
R103	1-247-807-00	(AEP,UK)...CARBON 100 5% 1/6W
R103	1-247-831-00	(G-AEP)....CARBON 1K 5% 1/6W
R104	1-247-821-00	(G-AEP)....CARBON 390 5% 1/6W
R105	1-247-819-00	CARBON 330 5% 1/6W
R106	1-247-819-00	CARBON 330 5% 1/6W
R107	1-249-434-11	CARBON 27K 5% 1/6W
R108	1-249-414-11	CARBON 560 5% 1/6W
R109	1-249-432-11	CARBON 18K 5% 1/6W
R110	1-247-819-00	(G-AEP)....CARBON 330 5% 1/6W
R111	1-247-819-00	(G-AEP)....CARBON 330 5% 1/6W
R112	1-249-434-11	(G-AEP)....CARBON 27K 5% 1/6W
R113	1-247-829-00	(G-AEP)....CARBON 820 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R114	1-249-432-11	(G-AEP)....CARBON 18K 5% 1/6W
R120	1-249-437-11	(G-AEP)....CARBON 47K 5% 1/6W
R121	1-249-434-11	(G-AEP)....CARBON 27K 5% 1/6W
R201	1-249-437-11	CARBON 47K 5% 1/6W
R202	1-247-879-00	CARBON 100K 5% 1/6W
R210	1-249-437-11	CARBON 47K 5% 1/6W
R211	1-247-879-00	CARBON 100K 5% 1/6W
R212	1-247-903-00	CARBON 1M 5% 1/6W
R213	1-247-879-00	CARBON 100K 5% 1/6W
R214	1-249-437-11	CARBON 47K 5% 1/6W
R215	1-249-421-11	CARBON 2.2K 5% 1/6W
R216	1-249-433-11	CARBON 22K 5% 1/6W
R217	1-249-433-11	CARBON 22K 5% 1/6W
R218	1-247-823-00	CARBON 470 5% 1/6W
R219	1-247-879-00	CARBON 100K 5% 1/6W
R220	1-249-429-11	CARBON 10K 5% 1/6W
R221	1-249-429-11	CARBON 10K 5% 1/6W
R222	1-249-437-11	CARBON 47K 5% 1/6W
R223	1-249-443-11	CARBON 22K 5% 1/6W
R224	1-249-425-11	CARBON 4.7K 5% 1/6W
R225 ⚠	1-247-123-00	CARBON 470 5% 1/4W F
R226	1-249-437-11	CARBON 47K 5% 1/6W
R227	1-249-425-11	CARBON 4.7K 5% 1/6W
R230	1-247-831-00	CARBON 1K 5% 1/6W
R231	1-247-879-00	CARBON 100K 5% 1/6W
R232	1-249-429-11	CARBON 10K 5% 1/6W
R233	1-247-859-00	CARBON 15K 5% 1/6W
R234	1-247-849-00	CARBON 5.6K 5% 1/6W
R235	1-247-805-00	CARBON 82 5% 1/6W
R236 ⚠	1-247-119-00	CARBON 330 5% 1/4W F
R237	1-249-429-11	CARBON 10K 5% 1/6W
R238	1-249-429-11	CARBON 10K 5% 1/6W
R239	1-247-831-00	CARBON 1K 5% 1/6W
R240	1-249-434-11	CARBON 27K 5% 1/6W
R241	1-249-429-11	CARBON 10K 5% 1/6W
R242	1-249-429-11	CARBON 10K 5% 1/6W
R243	1-249-429-11	CARBON 10K 5% 1/6W
R244	1-249-433-11	CARBON 22K 5% 1/6W
R245	1-247-879-00	CARBON 100K 5% 1/6W
R246	1-249-429-11	CARBON 10K 5% 1/6W
R247	1-249-437-11	CARBON 47K 5% 1/6W
R248	1-249-433-11	CARBON 22K 5% 1/6W
R249	1-247-843-00	CARBON 3.3K 5% 1/6W
R250	1-249-433-11	CARBON 22K 5% 1/6W
R301	1-247-807-00	CARBON 100 5% 1/6W
R302	1-249-425-11	CARBON 4.7K 5% 1/6W
R303	1-249-437-11	CARBON 47K 5% 1/6W
R304	1-247-831-00	CARBON 1K 5% 1/6W
R305	1-247-849-00	CARBON 5.6K 5% 1/6W
R306	1-249-433-11	CARBON 22K 5% 1/6W
R307	1-249-437-11	CARBON 47K 5% 1/6W
R308	1-247-879-00	CARBON 100K 5% 1/6W
R309	1-249-429-11	CARBON 10K 5% 1/6W
R310	1-249-425-11	CARBON 4.7K 5% 1/6W
R311 ⚠	1-247-109-00	CARBON 120 5% 1/4W F
R312	1-249-429-11	CARBON 10K 5% 1/6W
R314	1-249-437-11	CARBON 47K 5% 1/6W
R319	1-249-429-11	CARBON 10K 5% 1/6W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

MC-Service

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R320	1-247-831-00	CARBON	1K	5%	1/6W	
R321	1-247-815-00	CARBON	220	5%	1/6W	
R322	1-247-867-00	CARBON	33K	5%	1/6W	
R323	1-249-429-11	CARBON	10K	5%	1/6W	
R324	1-249-437-11	CARBON	47K	5%	1/6W	
R331	1-247-883-00	CARBON	150K	5%	1/6W	
R332	1-247-885-00	CARBON	180K	5%	1/6W	
R333	1-249-425-11	CARBON	4.7K	5%	1/6W	
R334	1-249-425-11	CARBON	4.7K	5%	1/6W	
R335	1-247-831-00	CARBON	1K	5%	1/6W	
R381	1-247-883-00	CARBON	150K	5%	1/6W	
R382	1-247-885-00	CARBON	180K	5%	1/6W	
R383	1-249-425-11	CARBON	4.7K	5%	1/6W	
R384	1-249-425-11	CARBON	4.7K	5%	1/6W	
R385	1-247-831-00	CARBON	1K	5%	1/6W	
R401	1-249-414-11	CARBON	560	5%	1/6W	
R402	1-247-837-00	CARBON	1.8K	5%	1/6W	
R403	1-247-833-00	CARBON	1.2K	5%	1/6W	
R404	1-247-819-00	CARBON	330	5%	1/6W	
R405	1-249-414-11	CARBON	560	5%	1/6W	
R406	1-247-851-00	CARBON	6.8K	5%	1/6W	
R407	1-249-425-11	CARBON	4.7K	5%	1/6W	
R408	1-247-827-00	CARBON	680	5%	1/6W	
R409 ⚠	1-247-113-00	CARBON	180	5%	1/4W	F
R410	1-249-425-11	CARBON	4.7K	5%	1/6W	
R411	1-247-879-00	CARBON	100K	5%	1/6W	
R412	1-247-833-00	CARBON	1.2K	5%	1/6W	
R413	1-247-819-00	CARBON	330	5%	1/6W	
R414	1-249-414-11	CARBON	560	5%	1/6W	
R415	1-247-851-00	CARBON	6.8K	5%	1/6W	
R416	1-249-425-11	CARBON	4.7K	5%	1/6W	
R418	1-247-783-00	CARBON	10	5%	1/6W	
R419	1-249-429-11	CARBON	10K	5%	1/6W	
R420	1-249-425-11	CARBON	4.7K	5%	1/6W	
R421	1-247-783-00	CARBON	10	5%	1/6W	
R422	1-249-429-11	CARBON	10K	5%	1/6W	
R423	1-249-429-11	CARBON	10K	5%	1/6W	
R424	1-247-783-00	CARBON	10	5%	1/6W	
R425	1-249-437-11	CARBON	47K	5%	1/6W	
R426	1-249-437-11	CARBON	47K	5%	1/6W	
R427	1-249-437-11	CARBON	47K	5%	1/6W	
R428	1-249-437-11	CARBON	47K	5%	1/6W	
R429	1-249-429-11	CARBON	10K	5%	1/6W	
R430	1-247-903-00	CARBON	1M	5%	1/6W	
R432	1-249-437-11	CARBON	47K	5%	1/6W	
R433	1-249-437-11	CARBON	47K	5%	1/6W	
R434	1-247-831-00	CARBON	1K	5%	1/6W	
R435	1-247-831-00	CARBON	1K	5%	1/6W	
R436	1-247-831-00	CARBON	1K	5%	1/6W	
R437	1-249-425-11	CARBON	4.7K	5%	1/6W	
R438	1-247-881-00	CARBON	120K	5%	1/6W	
R439	1-247-819-00	CARBON	330	5%	1/6W	
R440	1-249-437-11	CARBON	47K	5%	1/6W	
R441	1-249-433-11	CARBON	22K	5%	1/6W	
R442	1-249-429-11	CARBON	10K	5%	1/6W	
R443	1-247-879-00	CARBON	100K	5%	1/6W	
R444	1-247-817-00	CARBON	270	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R445	1-249-437-11	CARBON	47K	5%	1/6W	
R446	1-247-783-00	CARBON	10	5%	1/6W	
R447	1-247-843-00	CARBON	3.3K	5%	1/6W	
R448	1-249-429-11	CARBON	10K	5%	1/6W	
R449	1-247-879-00	CARBON	100K	5%	1/6W	
R450	1-247-819-00	CARBON	330	5%	1/6W	
R451 ⚠	1-247-091-00	CARBON	22	5%	1/4W	F
R452	1-249-429-11	CARBON	10K	5%	1/6W	
R453	1-249-437-11	CARBON	47K	5%	1/6W	
R454	1-249-429-11	CARBON	10K	5%	1/6W	
R455	1-249-429-11	CARBON	10K	5%	1/6W	
R456	1-247-813-00	CARBON	180	5%	1/6W	
R457	1-249-433-11	CARBON	22K	5%	1/6W	
R458	1-247-859-00	CARBON	15K	5%	1/6W	
R460	1-249-429-11	CARBON	10K	5%	1/6W	
R461	1-249-425-11	CARBON	4.7K	5%	1/6W	
R501	1-249-429-11	CARBON	10K	5%	1/6W	
R502	1-247-879-00	CARBON	100K	5%	1/6W	
R503 ⚠	1-206-656-00	METAL OXIDE	470	5%	2W	F
R504 ⚠	1-213-132-00	METAL OXIDE	120	5%	1W	F
R505	1-249-437-11	CARBON	47K	5%	1/6W	
R507	1-249-425-11	CARBON	4.7K	5%	1/6W	
R508	1-247-879-00	CARBON	100K	5%	1/6W	
R509	1-247-751-11	CARBON	820	5%	1/2W	
R510 ⚠	1-213-142-00	METAL OXIDE	820	5%	1W	F
R512 ⚠	1-247-115-00	CARBON	220	5%	1/4W	F
RV201	1-228-995-00	RES, ADJ, CARBON 22K				
RV202	1-228-996-00	RES, ADJ, CARBON 47K				
RV301	1-228-998-00	RES, ADJ, CARBON 220K				
RY501	1-515-560-11	RELAY				
RY502	1-515-533-11	RELAY				
S601	1-554-303-21	SWITCH, KEY BOARD (1/SUN)				
S602	1-554-303-21	SWITCH, KEY BOARD (2/MON)				
S603	1-554-303-21	SWITCH, KEY BOARD (3/TUE)				
S604	1-554-303-21	SWITCH, KEY BOARD (4/WED)				
S605	1-554-303-21	SWITCH, KEY BOARD (5/THU)				
S606	1-554-303-21	SWITCH, KEY BOARD (6/FRI)				
S607	1-554-303-21	SWITCH, KEY BOARD (7/SAT)				
S608	1-554-303-21	SWITCH, KEY BOARD (8/AM)				
S609	1-554-303-21	SWITCH, KEY BOARD (9/PM)				
S610	1-554-303-21	SWITCH, KEY BOARD (TIME/FREQUENCY)				
S611	1-554-303-21	SWITCH, KEY BOARD (0)				
S612	1-554-303-21	SWITCH, KEY BOARD (ENTER)				
S613	1-554-303-21	SWITCH, KEY BOARD (FM/MW/LW)				
S614	1-554-303-21	SWITCH, KEY BOARD (STEREO/MUTING)				
S615	1-554-303-21	SWITCH, KEY BOARD (FM TUNING MODE)				
S616	1-554-303-21	SWITCH, KEY BOARD (MEMORY)				
S617	1-554-303-21	SWITCH, KEY BOARD (TUNING -)				
S618	1-554-303-21	SWITCH, KEY BOARD (TUNING +)				
S619	1-554-303-21	SWITCH, KEY BOARD (MEMORY SCAN)				
S620	1-554-303-21	SWITCH, KEY BOARD (CLOCK)				
S621	1-554-303-21	SWITCH, KEY BOARD (TIMER CONTROL)				
S622	1-554-303-21	SWITCH, KEY BOARD (TINER SET)				
S623	1-554-303-21	SWITCH, KEY BOARD (ONCE)				
S624	1-554-303-21	SWITCH, KEY BOARD (WEEKLY)				
S625	1-554-303-21	SWITCH, KEY BOARD (SLEEP)				
S701	1-554-303-21	SWITCH, KEY BOARD (SYSTEM POWER)				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
T201	1-405-927-00	COIL, MW OSC
T202	1-402-080-11	COIL, ANT (MW)
T203	1-406-189-11	COIL (LW.OSC)
T204	1-402-081-11	COIL, ANT (LW)
TM901	1-536-707-00	(G-AEP)....TERMINAL BOARD, PUSH 2P (ANTENNA)
TM901	1-536-708-00	(AEP,UK)...TERMINAL BOARD, PUSH 4P (ANTENNA)
TM902	1-561-919-00	(G-AEP)...SOCKET, CONNECTOR
TP2	*1-560-060-00	PIN, CONNECTOR 2P
TP3	*1-560-060-00	PIN, CONNECTOR 2P
XT401	1-567-125-00	VIBRATOR, CRYSTAL
XT601	1-567-121-00	VIBRATOR, CRYSTAL

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-402-082-11	ANTENNA, FERRITE-ROD, AM LAYOUT-FREE
1-417-090-00	(G-AEP)...TRANSFORMER, ANTENNA MATCHING
1-501-351-21	ANTENNA, FEEDER
1-551-734-11	CORD, CONNECTION (RK-74A)
1-558-233-11	CORD (WITH CONNECTOR)(SIRCS)4P
3-701-630-00	BAG, POLYETHYLENE
3-760-886-11	(AEP,UK).....MANUAL, INSTRUCTION
3-760-886-41	(AEP,G-AEP)...MANUAL, INSTRUCTION
4-605-140-01	SHEET, PROTECTION
4-905-240-01	CUSHION, LOWER
4-905-242-01	CUSHION (LEFT), UPPER
4-905-243-01	CUSHION (RIGHT), UPPER
4-913-414-01	SPACER
4-913-416-01	INDIVIDUAL CARTON

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